



Innovative life science solutions

Anatomy Pathology Catalog
IHC Diagnostic Applications



Complete portfolio dedicate to Anatomic Pathology





En un esfuerzo por ofrecer la más completa atención al cliente, Histo-Line Laboratories se ha trasladado recientemente a una nueva sede en Viale G. di Vittorio, 30 Pantigliate (Milano), a fin de ampliar nuestras instalaciones y crear un centro con una capacidad de hasta 100 personas para la ejecución de los cursos de formación de ECM y aquellos dedicados a los aspectos teóricos y prácticos de las aplicaciones, así como las diferentes metodologías a implementar.



Immunohistochemistry portfolio

At Histo-Line Laboratories we are committed to enhancing Immunohistochemistry test results at an affordable cost to support pathologists in making increasingly difficult diagnostic decisions.

We offer a complete selection of IVD, ASR and RUO labeled concentrated and pre-diluted ready-to-use antibodies for your convenience.



Primary Antibodies

Histo-Line antibodies are optimized for immunohistochemical (IHC) procedures for use on formalin-fixed, paraffin-embedded (FFPE) tissues. They are formulated to provide maximum sensitivity while concurrently minimizing the amount of background staining. The antibodies are available in in vitro diagnostic (IVD) format or for research use only (RUO) with a data sheet indicating the preferred testing protocol

Concentrated Antibodies

Concentrated antibodies are antibodies that require a dilution prior to use. The suggested antibody dilution and diluent found on the data sheet maximizes stability and helps to achieve the best signal-to-noise ratio. For more information about Histo-Line's series of diluents, see the Ancillary section of this catalog. Dilutions are approximate and may vary according to the procedure being conducted.

Prediluted Antibodies

Prediluted antibodies are ready-to-use antibodies in diluent at optimal concentrations. These antibodies do not require any further dilution or addition of diluent.

IHC Detection systems

Histo-Line has sensitive and reliable detection systems ideal for human tissue.

Using innovative polymer technology, detection systems enable superior antigen access, giving unsurpassed specificity and sensitivity. Greater dilution of primary antibodies provides higher specificity, thus potentially eliminating false positives. These detection systems are biotin-free, specific, sensitive, clean and reproducible.

Heat-Induced Epitope Retrieval (HIER) Buffers

Histo-Line supports the complete IHC workflow including Heat-Induced Epitope Retrieval (HIER) buffers, antibody diluents, blocking reagents, enzymes, buffers, and mounting media. HIER buffers unmask epitopes that have been cross-linked by formalin fixation. These solutions are specially formulated for superior pH stability at high temperatures which helps prevent the loss of pH sensitive antigens.

ISO Certification

Histo-Line Laboratories has been steadily investing in quality since 1987 by improving its production processes to obtain products and tools that meet the needs of customers.

Through the implementation of Quality Management Systems attesting to this strong focus on the production of products with high qualitative characteristics and in accordance with internationally recognized requirements, it has obtained the certificates **ISO 9001** and obtained **ISO 13485**.



Immunohistochemistry products

DETECTION SYSTEMS

7	UltraTek Polymer	14	Polymer IHC (one step)
10	SensiTek Polymer	15	Species Specific Reagents
13	EcoTek Polymer	16	Blocking Reagents

CHROMOGENS

18	AEC Chromogen	20	HRP Individual Reagents
19	DAB Chromogen	21	Alk-Phos Individual Reagent

ANCILLARY

22	Antibody Diluents and Stabilizers	25	Mounting Media (IHC)
23	Digestion Enzymes and Enhancers	26	Miscellaneous (IHC)
24	Buffers	27	Equipment (IHC)

PRIMARY ANTIBODIES

	Research Antibodies	141	Multiplex Cocktail
31	Monoclonal Concentrates	141	Polyclonal Ready-to-Use
115	Polyclonal Concentrates	144	Polyclonal Concentrates
	Diagnostic Antibody	145	Transport Media
117	Monoclonal Ready-to-Use	145	Nuclear Stains
131	Monoclonal Concentrates		

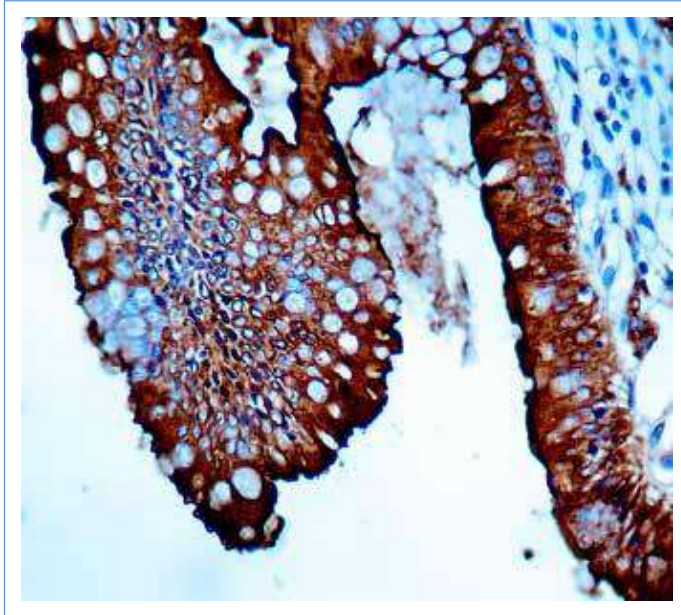
BUFFERS

146	Buffers solutions
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Detection systems

UltraTek is a highly sensitive, biotin-free immunostaining detection system formulated to simultaneously detect mouse as well as rabbit antibodies. UltraTek employs an enhancer reagent with the polymeric enzyme-linked anti-rabbit and anti-mouse immunoglobulins for two-step detection, yielding higher sensitivity while maintaining the extremely clean background. The enhanced sensitivity of UltraTek enables superior detection of antibodies at lower concentration or weaker signals.

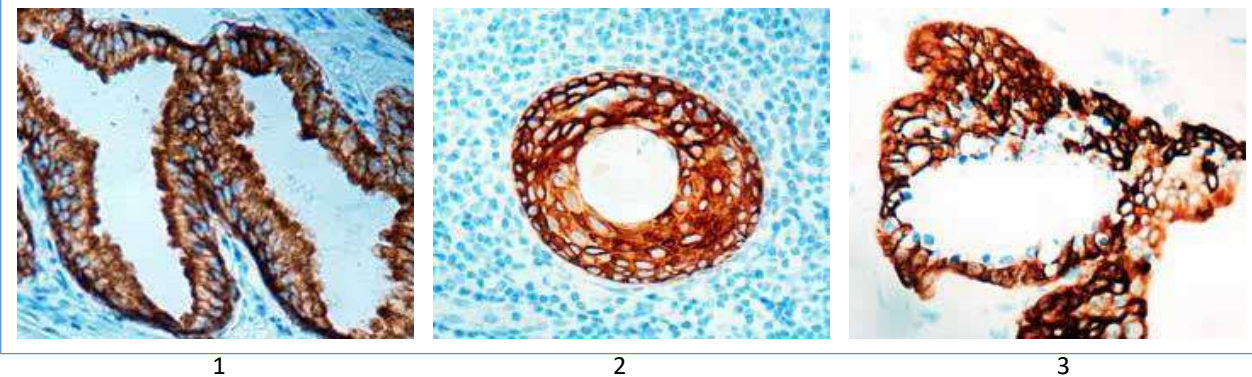


UltraTek

ADVANTAGES OVER CONVENTIONAL DETECTION SYSTEMS:

- High sensitivity
- High specificity
- Clean background
- Highly reproducible staining
- Suitable for manual as well as automated stainers
- Shorter incubation times for detection reagents

Human colon stained with Carcinoembryonic Antigen using UltraTek Detection System.



1. Human prostate carcinoma stained with Cytokeratin AE1+AE3 using UltraTek Detection System.
2. Human tonsil stained with Cytokeratin 5 using UltraTek Detection System.
3. Human prostate stained with Cytokeratin H.M.W. using UltraTek Detection System.

Detection systems

UltraTek Polymer

UltraTek Kits

UltraTek HRP (two step)



Retrieval HRP Anti-Polyvalent Lab Pack

The Retrieval Lab Pack is the optimal kit for the retrieval process. It is designed to provide crisp staining with incubation times of 10 minutes for the Link Antibody and Enzyme Label. The antibodies have been highly purified and specially formulated to assure crisp, clear staining when used in conjunction with each other.

<u>Catalog Number</u>	<u>Volume</u>
RLP015	150 Slides
RLP125	1250 Slides
RLP500	5000 Slides
RLP999	10000 Slides

UltraTek HRP Anti-Mouse (AEC) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Mouse
1 x 8ml HRP
1 x 3ml AEC Chromogen
7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKB080	70 Slides

UltraTek HRP Anti-Mouse (DAB) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Mouse
1 x 8ml HRP
1 x 3ml DAB Chromogen
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKA080	70 Slides

UltraTek HRP Anti-Mouse Lab Pack

Contains: One container of Super Block.
One container of Anti-Mouse.
One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHM125	1250 Slides
UHM500	5000 Slides
UHM999	10000 Slides

UltraTek HRP Anti-Mouse Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Mouse
4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFJ600	500 Slides

UltraTek HRP Anti-Polyvalent (AEC) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Polyvalent
1 x 8ml HRP
1 x 3ml AEC Chromogen
7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AMG080	70 Slides

UltraTek HRP Anti-Polyvalent (DAB) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Polyvalent
1 x 8ml HRP
1 x 3ml DAB Chromogen
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AMF080	70 Slides

UltraTek HRP Anti-Polyvalent Lab Pack

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Horseradish Peroxidase Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems and we encourage you to evaluate the addition of this in your current system.

Contains: One container of Super Block.
One container of Antipolyvalent.
One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHP125	1250 Slides
UHP500	5000 Slides
UHP999	10000 Slides

UltraTek HRP Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Polyvalent
4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFN600	500 Slides

UltraTek HRP Anti-Rabbit (AEC) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Rabbit
1 x 8ml HRP
1 x 3ml AEC Chromogen
7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKD080	70 Slides

UltraTek HRP Anti-Rabbit (DAB) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Rabbit
1 x 8ml HRP
1 x 3ml DAB Chromogen
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKC080	70 Slides

UltraTek HRP Anti-Rabbit Lab Pack

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Anti-Rabbit, and one bottle of Horseradish Peroxidase Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems and we encourage you to evaluate the addition of this in your current system.

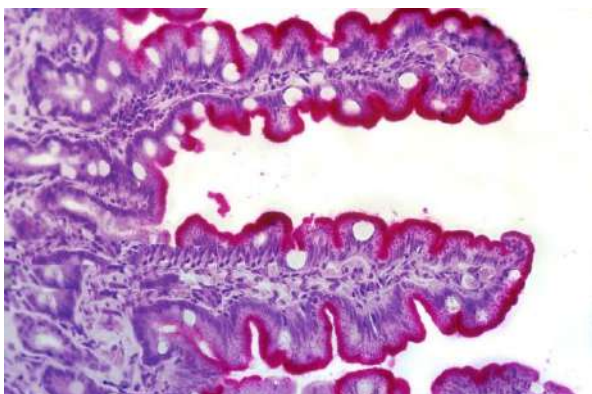
Contains: One container of Super Block.
One container of Anti-Rabbit.
One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHR125	1250 Slides
UHR500	5000 Slides
UHR999	10000 Slides

UltraTek HRP Anti-Rabbit Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Rabbit
4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFK600	500 Slides



UltraTek Alk-Phos

UltraTek Alk-Phos Anti-Mouse (Permanent Red) Staining System

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be coverslipped with solvent based mounting media for long term storage.

Contains: 1 x 8ml Super Block
1 x 8ml Anti-Mouse
1 x 8ml Alk-Phos
1 x 2ml Permanent Red Concentrate
8 x 5ml Permanent Red Buffer

<u>Catalog Number</u>	<u>Volume</u>
AET080	70 Slides

UltraTek Alk-Phos Anti-Mouse Lab Pack

Contains: One container of Super Block.
One container of Anti-Mouse.
One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
UAM125	1250 Slides
UAM500	5000 Slides
UAM999	10000 Slides

UltraTek Alk-Phos Anti-Mouse Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Mouse
4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFL600	500 Slides

UltraTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be coverslipped with solvent based mounting media for long term storage.

Contains: 1 x 8ml Super Block
1 x 8ml Anti-Polyvalent
1 x 8ml Alk-Phos
1 x 2ml Permanent Red Concentrate
8 x 5ml Permanent Red Buffer

<u>Catalog Number</u>	<u>Volume</u>
AMH080	70 Slides

UltraTek Alk-Phos Anti-Polyvalent Lab Pack

Contains: One container of Super Block.
One container of Anti-Polyvalent.
One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
UAP125	1250 Slides
UAP500	5000 Slides
UAP999	10000 Slides

UltraTek Alk-Phos Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Polyvalent
4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFP600	500 Slides

UltraTek Alk-Phos Anti-Rabbit (Permanent Red) Staining System

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be coverslipped with solvent based mounting media for long term storage.

Contains: 1 x 8ml Super Block
1 x 8ml Anti-Rabbit
1 x 8ml Alk-Phos
1 x 2ml Permanent Red Concentrate
8 x 5ml Permanent Red Buffer

<u>Catalog Number</u>	<u>Volume</u>
AME080	70 Slides

UltraTek Alk-Phos Anti-Rabbit Lab Pack

Contains: One container of Super Block.
One container of Anti-Rabbit.
One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
UAR125	1250 Slides
UAR500	5000 Slides
UAR999	10000 Slides

UltraTek Alk-Phos Anti-Rabbit Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Rabbit
4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFM600	500 Slides

UltraTek Individual Reagents**Super Block**

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

UltraTek Alkaline Phosphatase

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABM008	8 ml
ABM015	15 ml
ABM125	125 ml
ABM500	500 ml
ABM999	1000 ml

UltraTek Anti-Goat

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
AGL008	8 ml
AGL015	15 ml
AGL125	125 ml
AGL250	250 ml

UltraTek Anti-Mouse

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABJ008	8 ml
ABJ015	15 ml
ABJ125	125 ml
ABJ500	500 ml
ABJ999	1000 ml

UltraTek Anti-Polyvalent

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABN008	8 ml
ABN015	15 ml
ABN125	125 ml
ABN500	500 ml
ABN999	1000 ml

UltraTek Anti-Rabbit

The UltraTek line is our leading-edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABK008	8 ml
ABK015	15 ml
ABK125	125 ml
ABK500	500 ml
ABK999	1000 ml

UltraTek Horseradish Peroxidase

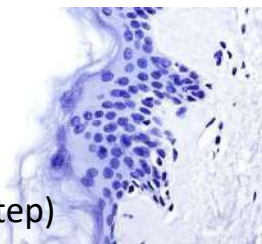
The UltraTek line is our leading-edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABL008	8 ml
ABL015	15 ml
ABL125	125 ml
ABL500	500 ml
ABL999	1000 ml

SensiTek

SensiTek Kits

SensiTek HRP (two step)



SensiTek HRP Anti-Mouse (AEC) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Mouse
1 x 8ml HRP
1 x 3ml AEC Chromogen
7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEB080	70 Slides

SensiTek HRP Anti-Mouse (DAB) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Mouse
1 x 8ml HRP
1 x 3ml DAB Chromogen
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEA080	70 Slides

SensiTek HRP Anti-Mouse Lab Pack

Contains: One container of Super Block
One container of Anti-Mouse
One container of HRP

<u>Catalog Number</u>	<u>Volume</u>
SHM125	1250 Slides
SHM500	5000 Slides
SHM999	10000 Slides

SensiTek HRP Anti-Mouse Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Mouse
4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFA600	500 Slides

SensiTek HRP Anti-Polyvalent (AEC) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Polyvalent
1 x 8ml HRP
1 x 3ml AEC Chromogen
7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEN080	70 Slides

SensiTek HRP Anti-Polyvalent (DAB) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Polyvalent
1 x 8ml HRP
1 x 3ml DAB Chromogen
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEM080	70 Slides

SensiTek HRP Anti-Polyvalent Lab Pack

Contains: One container of Super Block
One container of Anti-Polyvalent
One container of HRP

<u>Catalog Number</u>	<u>Volume</u>
SHP125	1250 Slides
SHP500	5000 Slides
SHP999	10000 Slides

SensiTek HRP Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Polyvalent
4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFG600	500 Slides

SensiTek HRP Anti-Rabbit (AEC) Staining System

Contains: 1 x 8ml Peroxide Block
 1 x 8ml Super Block
 1 x 8ml Anti-Rabbit
 1 x 8ml HRP
 1 x 3ml AEC Chromogen
 7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEJ080	70 Slides

SensiTek HRP Anti-Rabbit (DAB) Staining System

Contains: 1 x 8ml Peroxide Block
 1 x 8ml Super Block
 1 x 8ml Anti-Rabbit
 1 x 8ml HRP
 1 x 3ml DAB Chromogen
 7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEI080	70 Slides

SensiTek HRP Anti-Rabbit Lab Pack

Contains: One container of Super Block
 One container of Anti-Rabbit
 One container of HRP

<u>Catalog Number</u>	<u>Volume</u>
SHR125	1250 Slides
SHR500	5000 Slides
SHR999	10000 Slides

SensiTek HRP Anti-Rabbit Staining System

Contains: 4 x 15ml Super Block
 4 x 15ml Anti-Rabbit
 4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFE600	500 Slides

SensiTek Alk-Phos**SensiTek Alk-Phos Anti-Mouse (Fast Red) Staining System**

Contains: 1 x 8ml Super Block
 1 x 8ml Anti-Mouse
 1 x 8ml Alk-Phos
 8 Fast-Red Tablets
 8 x 5ml Naphthol Phosphate Buffer

<u>Catalog Number</u>	<u>Volume</u>
AEC080	70 Slides

SensiTek Alk-Phos Anti-Mouse Lab Pack

Contains: One container of Super Block
 One container of Anti-Mouse
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
SAM125	1250 Slides
SAM500	5000 Slides
SAM999	10000 Slides

SensiTek Alk-Phos Anti-Mouse Staining System

Contains: 4 x 15ml Super Block
 4 x 15ml Anti-Mouse
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFB600	500 Slides

SensiTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System

The SensiTek staining kit provides unmatched sensitivity with incubation times of 20 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be coverslipped with solvent based mounting media for long term storage.

Contains: 1 x 8ml Super Block
 1 x 8ml Anti-Polyvalent
 1 x 8ml Alk-Phos
 1 x 2ml Permanent Red Concentrate
 8 x 5ml Permanent Red Buffer

<u>Catalog Number</u>	<u>Volume</u>
AES080	70 Slides

SensiTek Alk-Phos Anti-Polyvalent Lab Pack

Contains: One container of Super Block
 One container of Anti-Polyvalent
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
SAP125	1250 Slides
SAP500	5000 Slides
SAP999	10000 Slides

SensiTek Alk-Phos Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block
 4 x 15ml Anti-Polyvalent
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFH600	500 Slides

SensiTek Alk-Phos Anti-Rabbit (Fast Red) Staining System

Contains: 1 x 8ml Super Block
 1 x 8ml Anti-Rabbit
 1 x 8ml Alk-Phos
 8 Fast-Red Tablets
 8 x 5ml Naphthol Phosphate Buffer

<u>Catalog Number</u>	<u>Volume</u>
AEK080	70 Slides

SensiTek Alk-Phos Anti-Rabbit Lab Pack

Contains: One container of Super Block
 One container of Anti-Rabbit
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
SAR125	1250 Slides
SAR500	5000 Slides
SAR999	10000 Slides

SensiTek Alk-Phos Anti-Rabbit Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Rabbit
4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFF600	500 Slides

SensiTek Individual Reagents

SensiTek Alkaline Phosphatase

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABH008	8 ml
ABH015	15 ml
ABH125	125 ml
ABH500	500 ml
ABH999	1000 ml

SensiTek Anti-Mouse

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABC008	8 ml
ABC015	15 ml
ABC125	125 ml
ABC500	500 ml
ABC999	1000 ml

SensiTek Anti-Polyvalent

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABF008	8 ml
ABF015	15 ml
ABF125	125 ml
ABF500	500 ml
ABF999	1000 ml

SensiTek Anti-Rabbit

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABE008	8 ml
ABE015	15 ml
ABE125	125 ml
ABE500	500 ml
ABE999	1000 ml

SensiTek Horseradish Peroxidase

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABG008	8 ml
ABG015	15 ml
ABG125	125 ml
ABG500	500 ml
ABG999	1000 ml

Super Block

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

EconoTek

EconoTek HRP

EconoTek HRP Anti-Polyvalent (DAB)

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Polyvalent
1 x 8ml HRP
1 x 3ml DAB Chromogen
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEX080	70 Slides

EconoTek HRP Anti-Polyvalent Lab Pack

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Enzyme Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems.

<u>Catalog Number</u>	<u>Volume</u>
EHP125	1250 Slides
EHP500	5000 Slides
EHP999	10000 Slides

Alk-Phos

EconoTek Alk-Phos Anti-Polyvalent Lab Pack

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Enzyme Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems.

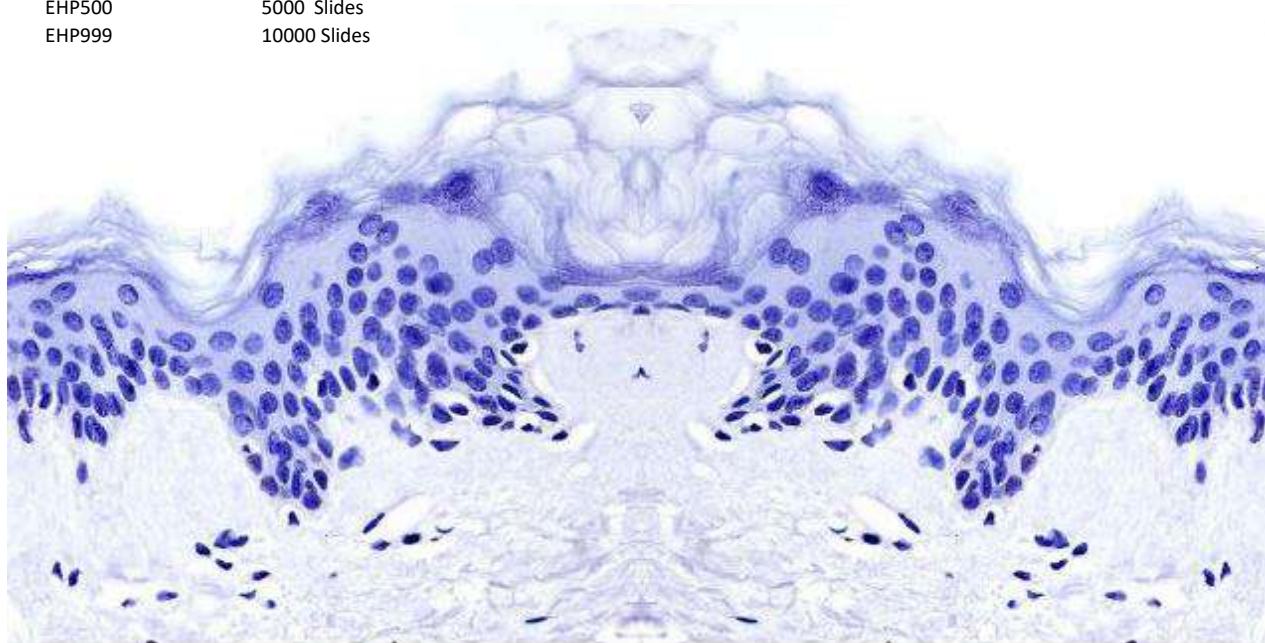
<u>Catalog Number</u>	<u>Volume</u>
EAP125	1250 Slides
EAP500	5000 Slides
EAP999	10000 Slides

EconoTek Alk-Phos Anti-Polyvalent (Fast Red)

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

Contains: 1 x 8ml Super Block
1 x 8ml Anti-Polyvalent
1 x 8ml Alk-Phos
8 Fast-Red Tablets
8 x 5ml Naphthol Phosphate Buffer

<u>Catalog Number</u>	<u>Volume</u>
AEY080	70 Slides



Polymer IHC (one step)

Polymer Kits



CRF Anti-Polyvalent HRP Polymer (DAB) Lab Pack

The CRF Anti-Polyvalent HRP Polymer (DAB) Lab Pack based on proprietary CRF Technology has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of Histo-Line, the system utilizes a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. The CRF technology based Anti-Polyvalent system is effective with antibodies of mouse, rat, rabbit and guinea pig. Each Lab Pack includes either 125ml, 500ml, or 1000ml of each component.

Contains: One bottle of Super Block.
One bottle of CRF Anti-Polyvalent HRP Polymer.
One bottle of DAB Substrate (High Contrast)
One vial of DAB Chromogen Concentrate.

<u>Catalog Number</u>	<u>Volume</u>
CPP125	1250 Slides
CPP500	5000 Slides
CPP999	10000 Slides

Polymer HRP

CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit

The CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit based on proprietary CRF Technology has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of Histo-Line, the system utilizes a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. The CRF technology based Anti-Polyvalent system is effective with antibodies of mouse, rat, rabbit and guinea pig.

Kit Contents: Peroxide Block 8 ml
Super Block 8 ml
CRF Anti-Polyvalent HRP 8 ml
DAB Chromogen Concentrate 3 ml
DAB Substrate (High Contrast) 5 ml x 8 vials

<u>Catalog Number</u>	<u>Volume</u>
CPH080	80 Slides

PolyTek Anti-Mouse (DAB) Polymerized HRP Imaging System

PolyTek HRP Anti-Mouse (DAB) Polymerized Imaging System has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of Histo-Line, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek HRP Anti-Mouse Polymerized Imaging System is effective with antibodies of mouse or rat origin.

Contains: 1 x 8ml Peroxide Block for Image Analysis
1 x 8ml Super Block
1 x 8ml PolyTek Anti-Mouse HRP
1 x 3ml DAB Chromogen
8 x 5ml DAB Substrate (High Contrast)

<u>Catalog Number</u>	<u>Volume</u>
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PIR080	70 Slides
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PolyTek Anti-Mouse HRP Polymer (DAB) Large Volume Kit

PolyTek Anti-Mouse HRP Polymer (DAB) Large Volume Kit has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of Histo-Line, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek Anti-Mouse HRP

Polymer Large Volume Kit is effective with antibodies of mouse or rat origin.

<u>Catalog Number</u>	<u>Volume</u>
PIR500	500 ml
PIR999	1000 ml

PolyTek HRP Anti-Rabbit Polymerized Imaging System

PolyTek HRP Anti-Rabbit (DAB) Polymerized Imaging System has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of Histo-Line, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek HRP Anti-Rabbit Polymerized Imaging System is effective with antibodies of rabbit or guinea pig origin.

Contains: 1 x 8ml Peroxide Block for Image Analysis
1 x 8ml Super Block
1 x 8ml PolyTek Anti-Rabbit HRP
1 x 3ml DAB Chromogen
8 x 5ml DAB Substrate (High Contrast)

<u>Catalog Number</u>	<u>Volume</u>
PIP080	1 kit(s)

Polymer Individual Reagents

CRF Anti-Polyvalent HRP Polymer

CRF Anti-Polyvalent HRP Polymer has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of Histo-Line, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition,

this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. CRF Anti-Polyvalent HRP Polymer is effective with antibodies of mouse, rat, rabbit and

<u>Catalog Number</u>	<u>Volume</u>
ABZ008	8 ml
ABZ015	15 ml
ABZ125	125 ml
ABZ500	500 ml
ABZ999	1000 ml

PolyTek, Anti-Mouse Polymerized HRP

PolyTek, Anti-Mouse Polymerized HRP has been developed to provide the cleanest, most consistent staining available. The system is based on a polymerized peroxidase label that eliminates biotin from the equation, thereby eliminating a major cause of background staining. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system.

<u>Catalog Number</u>	<u>Volume</u>
PAM008	8 ml
PAM015	15 ml
PAM125	125 ml
PAM500	500 ml
PAM999	1000 ml

PolyTek, Anti-Rabbit Polymerized Alk-Phos

PolyTek Anti-Rabbit Polymerized Alk-Phos has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of Histo-Line, the system is based on a polymerized alkaline phosphatase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek Anti-Rabbit Polymerized Alk-Phos is effective with antibodies of rabbit or guinea pig origin.

<u>Catalog Number</u>	<u>Volume</u>
PAL008	8 ml
PAL015	15 ml
PAL125	125 ml
PAL500	500 ml
PAL999	1000 ml

PolyTek, Anti-Rabbit Polymerized HRP

PolyTek, Anti-Rabbit Polymerized HRP has been developed to provide the cleanest, most consistent staining available. The system is based on a polymerized peroxidase label that eliminates biotin from the equation, thereby eliminating a major cause of background staining. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system.

<u>Catalog Number</u>	<u>Volume</u>
PAR008	8 ml
PAR015	15 ml
PAR125	125 ml
PAR500	500 ml
PAR999	1000 ml

Super Block

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

Species Specific Reagents

Mouse to Mouse



Mouse to Mouse Alk-Phos (Permanent Red) Staining System

Contains: 1 x 8ml Super Block
1 x 8ml Mouse Block
1 x 8ml Anti-Polyvalent
1 x 8ml Alk-Phos
1 x 2ml Permanent Red Concentrate
7 x 5ml Permanent Red Buffer

<u>Catalog Number</u>	<u>Volume</u>
MTM004	70 Slides

Mouse to Mouse Alk-Phos Staining System

Contains: 3 x 15ml Super Block
3 x 15ml Mouse Block
3 x 15ml Anti-Polyvalent
3 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
MTM005	400 Slides

Mouse to Mouse HRP (AEC) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Mouse Block
1 x 8ml Anti-Polyvalent
1 x 8ml HRP
1 x 3ml Chromogen
6 x 5ml Substrate

Catalog Number	Volume
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MTM002	70 Slides
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Mouse to Mouse HRP (DAB) Staining System

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Mouse Block
1 x 8ml Anti-Polyvalent
1 x 8ml HRP
1 x 3ml Chromogen
6 x 5ml Substrate

Catalog Number	Volume
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MTM001	70 Slides
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Mouse to Mouse HRP Staining System

Contains: 3 x 15ml Super Block
3 x 15ml Mouse Block
3 x 15ml Anti-Polyvalent
3 x 15ml HRP

Catalog Number	Volume
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MTM003	400 Slides
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Mouse-to-Mouse Blocking Reagent

Histo-Line's Mouse to Mouse reagent has been formulated to provide the researcher with a staining system capable of visualizing mouse monoclonal antibodies on mouse tissue. In most cases a 30-minute incubation with Mouse to Mouse block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with Histo-Line's UltraTek Anti-Mouse staining system for optimal results.

Catalog Number	Volume
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MTM008	8 ml
MTM015	15 ml
MTM125	125 ml
MTM500	500 ml

Human to Human

Human-to-Human Blocking Reagent

Histo-Line's Human to Human reagent has been formulated to provide the researcher with a staining system capable of visualizing human monoclonal antibodies on human tissue. In most cases a 30-minute incubation with Human to Human block will virtually eliminate background staining that is caused by endogenous immunoglobulins.

Catalog Number	Volume
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HTH008	8 ml
HTH015	15 ml
HTH100	100 ml

Rabbit to Rabbit

Rabbit-to-Rabbit Blocking Reagent

Histo-Line's Rabbit-to-Rabbit reagent has been formulated to provide the researcher with a staining system capable of visualizing Rabbit antibodies on Rabbit tissue. In most cases a 30-minute incubation with Rabbit-to-Rabbit block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with Histo-Line's UltraTek Anti-Rabbit staining system for optimal results.

Catalog Number	Volume
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RTR008	8 ml
RTR015	15 ml
RTR125	125 ml
RTR500	500 ml



Blocking Reagents (IHC)

Biotin Blocking Kit for Image Analysis

Biotin Blocking Kit has been developed to use with immunohistochemical (IHC) techniques for the reduction of nonspecific background staining due to endogenous biotin.

Biotin is a coenzyme of decarboxylase. It is present in many tissues, such as liver, pancreas, kidney, and intestine. Endogenous biotin can interfere with staining systems that employ the use of biotin. This product is designed to effectively eliminate the interfering tendencies of endogenous biotin.

Clear liquid, two components (A and B).

Store Biotin Blocking Kit at 2-8 deg. C. Product is stable for 18 months from date of manufacture.

Catalog Number	Volume
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BBK030	30 ml
BBK120	120 ml

Human-to-Human Blocking Reagent

Histo-Line's Human to Human reagent has been formulated to provide the researcher with a staining system capable of visualizing human monoclonal antibodies on human tissue. In most cases a 30-minute incubation with Human to Human block will virtually eliminate background staining that is caused by endogenous immunoglobulins.

Catalog Number	Volume
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HTH008	8 ml
HTH015	15 ml
HTH100	100 ml

Mouse-to-Mouse Blocking Reagent

Histo-Line's Mouse to Mouse reagent has been formulated to provide the researcher with a staining system capable of visualizing mouse monoclonal antibodies on mouse tissue. In most cases a 30-minute incubation with Mouse to Mouse block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with Histo-Line's UltraTek Anti-Mouse staining system for optimal results.

<u>Catalog Number</u>	<u>Volume</u>
MTM008	8 ml
MTM015	15 ml
MTM125	125 ml
MTM500	500 ml

Peroxide Block

Is recommended for the reduction of background staining due to endogenous peroxidase.

<u>Catalog Number</u>	<u>Volume</u>
ACA015	15 ml
ACA125	125 ea.
ACA500	500 ml
ACA999	1000 ml

Peroxide Block for Image Analysis

This reagent has been developed for use with immunohistochemical (IHC) techniques for the reduction of nonspecific background staining due to endogenous peroxidase. Traditional methods describe blocking peroxidase with hydrogen peroxide. This reagent employs hydrogen peroxide in

combination with additional novel components to further quench endogenous peroxidase.

Storage: 2-8 deg. Centigrade

<u>Catalog Number</u>	<u>Volume</u>
ADA015	15 ml
ADA500	500 ml
ADA999	1000 ml

Pro-Block

Is a unique serum-free protein block for immunochemistry. Pro-Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum.

Pro-Block is similar to Super Block, but without casein. The reagent is filtered at 0.2 microns.

<u>Catalog Number</u>	<u>Volume</u>
PBK125	125 ml
PBK500	500 ml
PBK999	1000 ml
PBK010	10 L
PBK-20000	20 L

Rabbit-to-Rabbit Blocking Reagent

Histo-Line's Rabbit-to-Rabbit reagent has been formulated to provide the researcher with a staining system capable of visualizing Rabbit antibodies on Rabbit tissue. In most cases a 30-minute incubation with Rabbit-to-Rabbit block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with Histo-Line's UltraTek Anti-Rabbit staining system for optimal results.

<u>Catalog Number</u>	<u>Volume</u>
RTR008	8 ml
RTR015	15 ml
RTR125	125 ml
RTR500	500 ml

Super Block

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

Chromogens

DAB concentrate is a widely used chromogen for immunohistochemical staining and immunoblotting.

When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media.

This product is available in a convenient two component form.

New discoveries in the clinic are demanding more functionality from IHC.

Use of high-quality, novel chromogens results in robust staining, making results reproducible and trustworthy.

- High Quality Staining—Detect and diagnose with confidence
- Broad Applicability—Single and Multiplex IHC and ISH
- Versatile and High Performance Reagents—HRP and AP compatible, well suited for manual and automation

This product comes in a two-component system consisting of a liquid stable DAB chromogen and DAB substrate buffer.

Linking HRP and primary antibodies for DAB staining

In IHC, there are three main methods of linking HRP to the primary antibody used for staining. These have the following advantages and disadvantages:

- Directly HRP-conjugated primary antibodies

Less amplification, and thus less sensitive than following methods. Very simple protocol. Requirement for HRP conjugation of primary antibody.

- Biotinylated secondary antibodies, combined with streptavidin-HRP in the ABC (Avidin Biotin Complex) method

Requirement for blocking of endogenous biotin to avoid background staining. Most heavily used method in research labs.

- HRP-polymer secondary antibodies

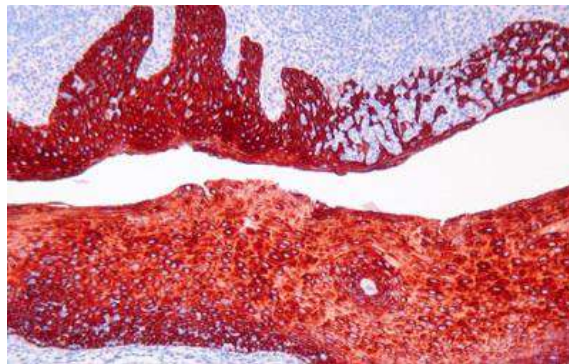
Shorter protocol than the ABC method. Highly sensitive with low background. Abcam uses this method for the validation of antibodies in IHC.

AEC Chromogen/Substrate Bulk Kit

3-Amino-9-Ethylcarbazole (AEC) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol and must be used with an aqueous counterstain and mounting media. This product is available in a two-component form consisting of a liquid, refrigerator stable AEC Chromogen and AEC Substrate. Each component is individually stable for 18 months from the date of manufacture.

<u>Catalog Number</u>	<u>Volume</u>
ACJ500	515 ml
ACJ999	1030 ml

Regulatory Status: IVD



Formalin fixed paraffin embedded lung adenocarcinoma human tissue stained with CD20 antibody labeled with AEC Chromogen/Substrate Bulk Kit produces a dark chocolate brown color.

DAB, is a widely used chromogen for immunoperoxidase staining, and is well accepted among pathologists because of its increased sensitivity and decreased background when compared to amino ethylcarbazole (AEC). Specimens stained with DAB can be dehydrated, cleared, and permanently mounted. High Contrast DAB is more sensitive and stable than traditional working DAB solutions.

AEC Chromogen/Substrate Kit

3-Amino-9-Ethylcarbazole (AEC) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol and must be used with an aqueous counterstain and mounting media. This product is available in a two component form consisting of a liquid, refrigerator stable AEC Chromogen and AEC Substrate. Each component is individually stable for 18 months from the date of manufacture. This kit is formatted using convenient dropper-top vials.

Substrate Pack:
55ml Substrate (5 x 11 vials)
3ml AEC Chromogen

<u>Catalog Number</u>	<u>Volume</u>
ACG500	500 Slides

DAB (Post) Enhancing Solution

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This solution has been developed to enhance DAB staining in a post staining procedure. The DAB will turn a darker and more intense brown after post-staining treatment.

<u>Catalog Number</u>	<u>Volume</u>
DES500	500 ml
DES999	1000 ml

DAB Away Kit

Contamination with Diaminobenzidine residue is a problem seen in many laboratories. Of particular concern to the technician is the reusable glassware and staining pads. This product completely removes the stain, rather than simply reduce the color intensity as the use of bleach does. The three components kit makes one liter of cleaning solution.

COMPONENTS:
DAB Reagent #1 - 125 ml
DAB Reagent #2 - 125 ml
Decolorizer - 250 ml

<u>Catalog Number</u>	<u>Volume</u>
ACP001	500 ml

DAB Chromogen/Substrate Bulk pack

3,3'-Diaminobenzidine (DAB) Ready-to-Use
Is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form.

<u>Catalog Number</u>	<u>Volume</u>
ACK500	530 ml
ACK999	1060 ml

DAB Chromogen/Substrate Bulk Pack (High Contrast)

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and somewhat more sensitive. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two component form consisting of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The use of liquid components reduces some risks associated with handling powders (ie. dust inhalation), and eliminates waste which often results from using tablets that require a predetermined final volume.

<u>Catalog Number</u>	<u>Volume</u>
ACV500	530 ml
ACV999	1060 ml

DAB Chromogen/Substrate Kit

3,3'-Diaminobenzidine (DAB) Ready-to-Use
Is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top substrate packs.

Substrate Pack:
55ml DAB Substrate (x11 vials)
3ml DAB Chromogen

<u>Catalog Number</u>	<u>Volume</u>
ACH500	500 Slides

DAB Chromogen/Substrate Kit (High Contrast)

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and somewhat more sensitive. Histo-Line recommends using Hematoxylin for Automation (catalog # HAQ500) for optimal contrast. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in two components form consisting of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The standard working dilution is 50ul (0.9mg) of DAB Chromogen per 1ml of DAB Substrate (High Contrast), although the ratio can be adjusted as desired. The use of liquid components reduces some risks associated with handling powders (ie. dust inhalation), and eliminates waste which often results from using tablets that require a predetermined final volume. Once the two components are combined, the reagent can be used for up to six hours, making it ideal for automated stainers.

<u>Catalog Number</u>	<u>Volume</u>
ACT500	500 Slides

DAB Differentiating Solution

May be used for removal of excess DAB staining from tissue specimens.

<u>Catalog Number</u>	<u>Volume</u>
DDS500	500 ml

DAB Enhancer Solution

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This solution has been developed to enhance DAB staining in a post staining procedure. The use of DAB Enhancer Solution will result a darker and more intense blackish-brown stain

<u>Catalog Number</u>	<u>Volume</u>
ACM030	30 ml

HRP Individual Reagents**AEC Chromogen Concentrate**

<u>Catalog Number</u>	<u>Volume</u>
ACD015	15 ml
ACD030	30 ml
ACD125	125 ml

AEC Substrate Buffer

<u>Catalog Number</u>	<u>Volume</u>
ACE500	500 ml
ACE999	1000 ml

DAB (Post) Enhancing Solution

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This solution has been developed to enhance DAB staining in a post staining procedure. The DAB will turn a darker and more intense brown after post-staining treatment.

<u>Catalog Number</u>	<u>Volume</u>
DES500	500 ml
DES999	1000 ml

DAB Chromogen Concentrate

3,3'-Diaminobenzidine (DAB) Concentrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top. Use with Histo-Line catalog number ACC999, DAB Substrate.

<u>Catalog Number</u>	<u>Volume</u>
ACB030	30 ml
ACB060	60 ml
ACB125	125 ml
ACB500	500 ml
ACB999	1000 ml

DAB Enhancer Solution

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This solution has been developed to enhance DAB staining in a post staining procedure. The use of DAB Enhancer Solution will result a darker and more intense blackish-brown stain

<u>Catalog Number</u>	<u>Volume</u>
ACM030	30 ml

DAB Substrate (High Contrast)

This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top. Use with Histo-Line catalog number ACB030, DAB Chromogen.

<u>Catalog Number</u>	<u>Volume</u>
ACU250	250 ml
ACU500	500 ml
ACU999	1000 ml

DAB Substrate Buffer

This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top. Use with Histo-Line catalog number ACB030, DAB Chromogen.

<u>Catalog Number</u>	<u>Volume</u>
ACC500	500 ml
ACC999	1000 ml

Alk-Phos**Alk-Phos Kits****Alk-Phos Blue Kit**

Alk-Phos Blue is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, Alk-Phos Blue produces a bright blue precipitate that may be permanently mounted with minimal loss of intensity.

<u>Catalog Number</u>	<u>Volume</u>
APB-60	64 ml

BCIP/INT Solution

5-Bromo-4-Chloro-3-IndolylPhosphate/p-Iodonitrotetrazolium (BCIP/INT) Solution

Is a chromogen used in immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/INT produces a brown precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACL125	125 ml
ACL500	500 ml
ACL999	1000 ml

BCIP/NBT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/nitroblue Tetrazolium (BCIP/NBT) Solution

Is a widely used chromogen for immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/NBT produces a purple precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACN125	125 ml
ACN500	500 ml
ACN999	1000 ml

New Fuchsin Kit

This is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, New Fuchsin produces an intense red/fuchsia precipitate that may be permanently mounted.

Pack Includes:

64 ml 60ml Buffer
2ml New Fuchsin Concentrate
2ml Activator

430 ml 400ml Buffer
15ml New Fuchsin
15ml Activator

4,250 ml 4,000ml Buffer
125ml New Fuchsin
125ml Activator

<u>Catalog Number</u>	<u>Volume</u>
NF0001	64 ml
NF0002	430 ml

Permanent Red Bulk Pack (For Alkaline Phosphatase)

Permanent Red is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, Permanent Red produces an intense red precipitate that may be permanently mounted. Reagent may be mixed for up to 2 hours prior to application making it suitable for automated staining.

<u>Catalog Number</u>	<u>Volume</u>
PRD500	515 ml
PRD999	1030 ml

Permanent Red Kit (For Alkaline Phosphatase)

Permanent Red (For Alkaline Phosphatase) is a two-component chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, Permanent Red produces an intense red precipitate that is insoluble in alcohol and may be permanently mounted in synthetic resin. The working solution may be mixed for up to 2 hours prior to application making it suitable for automated staining.

Contents:

Catalog# PRD-15 1ml Permanent Red
15ml Buffer

Catalog# PRD-61 2ml Permanent Red
60ml Buffer

<u>Catalog Number</u>	<u>Volume</u>
PRD-15	15 ml
PRD-61	61 ml

Alk-Phos Individual Reagents**Alkaline Phosphatase Enhancer**

Is a single component, ready-to-use reagent which produces a several-fold increase in staining intensity. To use, simply incubate the tissue section for one minute in this reagent, just prior to incubation with Fast-Red, BCIP, or New Fuchsin.

<u>Catalog Number</u>	<u>Volume</u>
APE125	125 ml
APE500	500 ml
APE999	1000 ml

BCIP/INT Solution

5-Bromo-4-Chloro-3-IndolylPhosphate/p-Iodonitrotetrazolium (BCIP/INT) Solution

Is a chromogen used in immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/INT produces a brown precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACL125	125 ml
ACL500	500 ml
ACL999	1000 ml

BCIP/NBT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/nitroblue Tetrazolium (BCIP/NBT) Solution

Is a widely used chromogen for immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/NBT produces a purple precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACN125	125 ml
ACN500	500 ml
ACN999	1000 ml

Ancillary (IHC)

BRIJ 35 Solution (25-30%)

BRIJ 35 Solution is a nonionic polyoxyethylene surfactant used in a variety of protein methods. The reagent is an aqueous base containing 25-30% w/v proteomics grade BRIJ 35 making it optimal for use as a wetting agent in immunohistochemical reagents.

<u>Catalog Number</u>	<u>Volume</u>
BRJ500	500 ml
BRJ999	1000 ml

Primary Antibody Dropper Vial

Provides a simple solution for storing and dispensing of diluted primary antibodies. Using a permanent marker, simply fill in the Antibody, Species, Date Manufactured, and the Expiration Date. Store diluted antibody at 2-8 C.

Contains: 1x15ml Vial, 1 Dropper Tip, 1 Green Cap, and 3 printed labels.

<u>Catalog Number</u>	<u>Volume</u>
PAV015	1 ea.

Tween 20

Polyoxyethylenesorbitan Monolaurate - Tween 20.

<u>Catalog Number</u>	<u>Volume</u>
TWN500	500 ml
TWN999	1000 ml

Water, Deionized/Distilled

Water for use in laboratory procedures has been deionized, distilled and filtered at 0.2 micrometer for critical assays.

<u>Catalog Number</u>	<u>Volume</u>
DDH999	1000 ml
DDH3800	1 Gal.
DDH-20000	20 L

Antibody Diluents and Stabilizers

Alk-Phos Stabilizing Diluent

This reagent is formulated specifically for Alkaline Phosphatase conjugates. The product insures consistently high levels of

activity for both the enzyme and the antibody following long-term storage at final dilution. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions and storage temperatures. Alk-Phos Stabilizing Diluent is filtered at 0.2 um and reinforced with a non-mercury or azide-free preservative. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
APD500	500 ml
APD999	1000 ml

Enzyme Label Diluent

Provided as a ready-to-use diluent for enzyme labeled antibodies and streptavidin/avidin enzyme conjugates. Diluted reagents can be stored at 2-8 deg. C for up to 18 months at immunohistochemical dilutions. This reagent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABI500	500 ml
ABI999	1000 ml

HRP Stabilizing Diluent (MOPS Buffered)

HRP Stabilizing Diluent (MOPS Buffered) has been developed specifically for the stabilization of Horseradish Peroxidase conjugates in solution. HRP Stabilizer prevents the loss of catalytic activity and maintains the conformation of the antibody or protein antigen portion of the conjugate. Product is filtered at 0.2 microns.

Contents: Aqueous, protein-containing diluent and stabilizer for Horseradish Peroxidase conjugates.

Preservative: 0.02% Bromonitrodioxane, 0.02% 2-Methyl-4-isothiazolin-3-one, 0.005% Proclin 300 (Proclin is a registered trademark of Rohm & Haas Company), and 0.0008% Neomycin.

<u>Catalog Number</u>	<u>Volume</u>
HSM125	125 ml
HSM500	500 ml
HSM999	1000 ml

HRP Stabilizing Diluent (Phosphate Buffered)

This product has been developed to significantly increase the shelf life of diluted peroxidase labeled proteins. Stability is increased at room temperature storage conditions in addition to 2-8 centigrade. This product is subjected to 0.45 micron filtration, and contains no mercury or azide. This formulation insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final-use dilution. HRP Stabilizer greatly improves the signal to noise ratios which increases the immunoassay sensitivity and offers cleaner assays. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions & storage temperatures and improved day to day assay precision.

This product is recommended to be used in conjunction with Histo-Line's proprietary Coating Stabilizer, Blocking Buffer (Super Block), Washing solution, TMB and Stopping Solution. All of the ELISA products are available in bulk quantities, including custom lot sizes up to 5000 liters. Histo-Line Laboratories specializes in custom manufacturing, vialing, labeling and packaging. Call today for a quote 800-729-8350.

<u>Catalog Number</u>	<u>Volume</u>
HSB500	500 ml
HSB999	1000 ml

Normal Antibody Diluent (Phosphate Buffered)

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABB125	125 ml
ABB500	500 ml
ABB999	1000 ml

Normal Antibody Diluent (Tris Buffered)

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ADT125	125 ml
ADT500	500 ml
ADT999	1000 ml

Primary Antibody Diluent (Phosphate, Green)

Provided as a ready-to-use (Phosphate Buffered) diluent containing green dye for diluting primary antibodies and for use as a negative control. Both monoclonal and polyclonal antibodies are stabilized for long-term storage thereby reducing the number of titrations required from concentrated form. This product contains a highly purified carrier protein that minimizes proteolytic enzyme degradation, a wetting agent to reduce surface tension and an anti-microbial agent to prevent microbial growth. Not for antibodies that have been conjugated with peroxidase. In most cases, antibodies diluted in this reagent can be stored for 24 months at 2-8 C. Diluent is subjected to 0.2 micron filtration.

pH 7.4

<u>Catalog Number</u>	<u>Volume</u>
APG125	125 ml
APG500	500 ml
APG999	1000 ml
APG010	10 L

Primary Antibody Diluent (Tris, Green)

Provided as a ready-to-use (Tris Buffered) diluent containing green dye for diluting primary antibodies and for use as a negative control. Both monoclonal and polyclonal antibodies are stabilized for long-term storage thereby reducing the number of titrations required from concentrated form. This product contains a highly purified carrier protein that minimizes proteolytic enzyme degradation, a wetting agent to reduce surface tension and an anti-microbial agent to prevent microbial growth. Not for antibodies that have been conjugated with peroxidase. In most cases, antibodies diluted in this reagent can be stored for 24 months at 2-8 C. Diluent is subjected to 0.2 micron filtration.

pH 7.4

<u>Catalog Number</u>	<u>Volume</u>
ATG125	125 ml
ATG500	500 ml
ATG999	1000 ml
ATG-20000	20 L

Digestion Enzymes and Enhancers

Citrate Buffer (10x) pH 6.0

Citrate Buffer (10X) HIER Solution (pH 6.0) is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
CBB125	125 ml
CBB500	500 ml
CBB999	1000 ml

Citrate Plus (10x) HIER Solution

This is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective. Citrate Plus (10X) can be used in a vegetable steamer, autoclave, or pressure cooker. However, for optimal results we recommend the autoclave or pressure cooker.

<u>Catalog Number</u>	<u>Volume</u>
CPL500	500 ml
CPL999	1000 ml

EDTA - Saline Buffer (10X Concentrate); pH 8.0

EDTA Buffer (10X) HIER Solution (pH 8.0) is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
ETA500	500 ml
ETA999	1000 ml

Pepsin, Stabilized Solution

The tissue section is incubated 10 minutes at 37 deg. centigrade in this single component, ready-to-use solution. This product is stable for 12 months at 4 deg. Centigrade. Pepsin is a commonly used digestive enzyme for immunohistochemical procedures. This product is provided as a single component, ready-to-use solution.

<u>Catalog Number</u>	<u>Volume</u>
PSS060	60 ml
PSS125	125 ml

Tris-EDTA HIER Solution (10x) pH 9.0

Tris-EDTA HIER Solution (10x) pH 9.0 is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
TES500	500 ml
TES999	1000 ml

Trypsin Enzymatic Digestion Kit

The tissue section is incubated 10 minutes at 37 deg. centigrade in this two component, ready-to-use solution. This product is stable for 9 months at 2-8 deg. Centigrade. This product contains 30 or 60 ml of Trypsin concentrate, and 125 or 250 ml of Buffer.

<u>Catalog Number</u>	<u>Volume</u>
TSS155	155 ml
TSS310	310 ml

Buffers

Phosphate Buffered Saline (10x) pH 7.4

Histo-Line Phosphate Buffered Saline (10x) pH 7.4 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBD500	500 ml
PBD999	1000 ml
PBD010	10 L
PBD-20000	20 L

Phosphate Buffered Saline (25x) pH 7.6

Histo-Line Phosphate Buffered Saline (25x) pH of 7.6 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBS125	125 ml
PBS500	500 ml
PBS999	1000 ml
PBS010	10 L
PBS-20000	20 L

Phosphate Buffered Saline plus Tween 20 (10x) pH 7.4

Histo-Line Phosphate Buffered Saline + Tween 20 (10x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our

Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBE500	500 ml
PBE999	1000 ml
PBE010	10 L
PBE-20000	20 L

Phosphate Buffered Saline plus Tween 20 (20x) pH 7.6

Histo-Line Wash buffer formulations are an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBT500	500 ml
PBT999	1000 ml
PBT010	10 L
PBT-20000	20 L

Tris Buffered Saline (10x) pH 7.5

Histo-Line Tris Buffered Saline (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBD500	500 ml
TBD999	1000 ml
TBD010	10 L
TBD-20000	20 L

Tris Buffered Saline (25x) pH 7.4

Histo-Line Tris Buffered Saline (25x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBS500	500 ml
TBS999	1000 ml
TBS010	10 L
TBS-20000	20 L

Tris Buffered Saline plus Tween 20 (10x) pH 7.5

Histo-Line Tris Buffered Saline + Tween 20 (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBE500	500 ml
TBE999	1000 ml
TBE010	10 L
TBE-20000	20 L

Tris Buffered Saline plus Tween 20 (20x Concentrate) pH 7.4

Histo-Line Tris Buffered Saline + Tween 20 (20x Concentrate) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the tissue sample or microtiter plate wells without disrupting the antibody binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application.

<u>Catalog Number</u>	<u>Volume</u>
TBT500	500 ml
TBT999	1000 ml
TBT010	10 L
TBT-20000	20 L

Mounting Media (IHC)**Aqueous Mount**

Is formulated for coverslipping sections stained with alcohol soluble chromogens, such as Fast-Red or AEC. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use.

<u>Catalog Number</u>	<u>Volume</u>
AMT030	30 ml
AMT060	60 ml
AMT500	500 ml
AMT999	1000 ml

Aqueous Mount (Low Viscosity)

Is formulated for coverslipping sections stained with alcohol soluble chromogens, such as Fast-Red or AEC. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use. Flows more freely than AMT.

<u>Catalog Number</u>	<u>Volume</u>
AML030	30 ml
AML060	60 ml
AML500	500 ml
AML999	1000 ml

Buffered Glycerol Mounting Media

Buffered Glycerol Mounting Media is a non-drying formulation that is useful in a variety of procedures, such as immunofluorescence, immunohistochemistry, special stains, etc. Coverslips may be easily removed by soaking in water.

No heating is required before use.

Contains no Anti-Fade components.

pH 8.0

<u>Catalog Number</u>	<u>Volume</u>
GMM003	3 ml
GMM030	30 ml
GMM500	500 ml
GMM999	1000 ml

FluoreGuard Mounting Medium

FluoreGuard Mounting Medium is a water-soluble medium designed for semi-permanent coverslipping of fluorescent slide preparations. FluoreGuard dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

<u>Catalog Number</u>	<u>Volume</u>
FMM030	30 ml
FMM060	60 ml
FMM500	500 ml
FMM999	1000 ml

FluoreGuard Mounting Medium (Hard Set)

FluoreGuard Mounting Medium (Hard Set) is a water-soluble medium designed for semi-permanent coverslipping of fluorescent slide preparations. FluoreGuard dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

<u>Catalog Number</u>	<u>Volume</u>
FMH030	30 ml
FMH060	60 ml
FMH500	500 ml
FMH999	1000 ml

Permanent Mounting Media (Aqueous)

AEC and Fast Red are two of the most commonly used chromogens for peroxidase and alkaline phosphatase based immunostaining systems respectively. However, slides stained with these chromogens cannot be stored permanently. Permanent Mounting Medium (Aqueous) has been designed to overcome this limitation. This product is an aqueous mounting medium with a very high refractive index, which when applied to the stained tissue sections can store the tissue specimens permanently without fading of the chromogens. Because of the superior refractive index, tissues mounted in this medium look like dehydrated specimens. No coverslipping is required. However, if coverslipping is desired, dry slides can be post mounted using an organic based mounting medium. Advantages of this product include: no coverslip, no exposure to the organic fumes, permanent storage of slides and high resolution of tissue specimens. This reagent is compatible with AEC, DAB, Fast Red, BCIP/NBT, BCIP/INT and fluorescent dyes like FITC and phycobiliproteins. High pH ensures increased stability of fluorescence.

<u>Catalog Number</u>	<u>Volume</u>
PMT030	30 ml

Miscellaneous (IHC)

KP Marker Plus

Klinipath KP Marker Plus is a solvent resistant marking pen for permanent writing on glass slides, cassettes and other items in the laboratory. One box contains 12 pens.

<u>Catalog Number</u>	<u>Volume</u>
KPM-1	12 Pen(s)

PAP Pen

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0001	1 ea.

PAP Pen-Mini

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0002	1 ea.

Equipment (IHC)

Blue Base for Dissecting Board

To make dissecting more comfortable, this heavy-duty base is used to elevate the DissecTable Board to the right height. The bases are stackable and will not move sideways during the dissecting work. The base will also retain excess fluid if necessary.

Dimensions: 481 mm x 656 mm x 91 mm (19 1/4 x 26 1/4 x 3 5/8 in H)

Catalog Number	Volume
M625	1 ea.

Cassettes in QuickLoad Sleeves

The sleeved cassettes are especially made to be used with ThermoFisher printers. Cassettes with tape are to be used with Leica and Sakura Ink Jet printers. Molded from a special high density acetal polymer, they keep specimens safely submerged and are totally resistant to the chemical action of solvents used in histology laboratories. The efficient flow-through slots maximize fluid exchange and ensure proper reagent drainage.

Catalog Number	Volume
M480-11SL-ORANGE	1 ea.
M480-10SL-GRAY	1 ea.
M480-4SL-GREEN	1 ea.
M480-6SL-BLUE	1 ea.
M480-5SL-YELLOW	1 ea.
M480-3SL-PINK	1 ea.
M480-12SL-AQUA	1 ea.
M480-7SL-PEACH	1 ea.
M480-8SL-TAN	1 ea.
M480-9SL-GRAY	1 ea.
M480-2SL-WHITE	1 ea.

CoreDish for Lower GI Track Biopsies

For lower GI track biopsies. Twelve compartments. An area for patient information is provided. Ten labeled compartments: Proximal Flexure Colon, Hepatic Flexure Colon, Distal Transverse Colon, Ascending Colon, Splenic flexure Colon, Cecum, Descending Colon, Terminal Ileum, Rectum, Sigmoid Colon. Leakproof seal, thanks to O-ring lid, allows for safe and easy transport of the specimens from collection to analysis.

Made of polystyrene. Qty/Cs 10

Catalog Number	Volume
M970-D12LGIPREFILLE	1 Case(s)
M971-D12LGI	1 Case(s)



CoreDish for Prostate Biopsies

Few recommendations concerning how the biopsies should be handled have been published. Performing a large number of biopsies means an increase in the number of containers handled and consequently, a technical overload of the transmission network, which occurs without any financial counterpart. A new approach had to be developed in order to increase productivity.

Simport is proud to offer a multi-compartment container for prostate biopsies. The CoreDish is in the shape of a dish measuring only 15 mm high x 95 mm diameter and is half prefilled with 10% Neutral Buffered Formalin. The screw on lid incorporates an O-ring in order to make it leakproof and protect its contents. The CoreDish conforms to OSHA directives. An area for patient information is provided on the label. Each compartment is clearly identified to allow proper placement and visualization of the prostate biopsy being inserted. Out of eight compartments, six are labeled: Base, Lateral Base, Medial, Lateral Medial, Apex, Lateral Apex.

Thanks to the CoreDish it is no more necessary to use a multitude of individual containers, thereby reducing risks of confusion.

Qty/Cs 10

Catalog Number	Volume
M970-D8P-PREFILLED	1 Case(s)
M971-D8P	1 Case(s)

CoreDish Prostate Biopsy Container with 10% Formalin

Few recommendations concerning how the biopsies should be handled have been published. Performing a large number of biopsies means an increase in the number of containers handled and consequently a technical overload of the transmission network, which occurs without any financial counterpart. A new approach had to be developed in order to increase productivity.

Simport is proud to offer a multi-compartment container for prostate biopsies. The CoreDish is in the shape of a dish measuring only 15 mm high x 95 mm diameter and is half prefilled with 10% Neutral Buffered Formalin. The screw on lid incorporates an O-ring in order to make it leakproof and protect its contents. The CoreDish conforms to OSHA directives. An area for patient information is provided on the label. Each compartment is clearly identified to allow proper placement and visualization of the prostate biopsy being inserted. All twelve compartments are labeled:

L Base, R Base, L Lateral Base, R Lateral Base, L Lateral Medial, L Medial, R Medial, R Lateral Medial, L Lateral Apex, L Apex, R Apex, R Lateral Apex.

Thanks to the CoreDish it is no more necessary to use a multitude of individual containers, thereby reducing risks of confusion.

Made of polystyrene.

Qty/Cs 10

Catalog Number	Volume
M970-D12P-PREFILLED	1 Case(s)
M971-D12P	1 Case(s)

Core Dish Upper GI Tract

Upper GI track biopsy container with 10% formalin. For upper GI track biopsies. Eight compartments. An area for patient information is provided. Seven labeled compartments: Gastric Card, Gastric Body, GE Junction, Gastric ATR, Distal Esophagus, Pylorus, Duodenum. Leakproof seal, thanks to O-ring lid, allows for safe and easy transport of the specimens from collection to analysis. 10 per case.

Made of polystyrene.

<u>Catalog Number</u>	<u>Volume</u>
M971-D8UGI	1 Case(s)
M970-D8UGI-PREFILLE	1 Case(s)

Dissecting Board

A new and unique approach makes this dissecting board more convenient than any other found on the market today. It is no more necessary to buy different sizes as this board offers a large surface on one side and two smaller ones on the other side.

Made of heavy-duty stain resistant thick polyethylene, it will last for years to come without changing shape, bending or swelling. Will not dull fine surgical blades. In order to contain fluids, a drain groove is carved all around the edge of the DissecTable.

On one side, you will find a large cutting area including dimensional scales in inches and centimeters, along with a 60 x 80 mm grid made of 48 x 10 mm squares. Six dimensional circles are also printed from 1/8 to 5/8 in. and 4 to 14 mm in diameter. Flip it over and the other side offers two cutting boards half the size with the same dimensional features printed on each one of them. All corners have rubber feet giving more stability to the working surface.

Dimensions: 575 mm x 400 mm x 12.5 mm (23 x 16 x 1/2 in H)

<u>Catalog Number</u>	<u>Volume</u>
M620	1 ea.

Dissecting Board Jr.

A smaller DissecTable is also available with the same features and benefits as the M620. Perfect for smaller counter area.

Dimensions: 330.2 mm x 279.4 mm x 12.5 mm (13 x 11 x 1/2 in H)

<u>Catalog Number</u>	<u>Volume</u>
M618	1 ea.



Easy Dip Slide Staining System

Finally a user-friendly approach for staining your microscope slides, the EasyDip Slide Staining System has two components: a square staining jar and a 12 - position vertical slide rack. Jars can be loosely joined to each other laterally, therefore making sure they are kept in the same order when moved around on the lab counter. As an extra benefit, they are available in 5 different colors to help better identifying contents or applications.

The staining jar being made of resistant acetal plastic will not break like most glass jars do. It will resist most staining agents including alcohol and xylene (but not phenol, iodine or ferric chloride). The wide stable base offers greater stability while the inside is recessed, allowing for a smaller reagent volume of only 80 ml. Easy to clean and no metals to corrode. Ideal for special stains, frozen sections and special processes. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 64 x 76 x 92 mm H (2 1/2 x 3 x 3 5/8 in. H).

Each case includes 5 jars (one of each color) and 1 rack M905-12DGY.

<u>Catalog Number</u>	<u>Volume</u>
M900-12W-WHITE	1 Case(s)
M900-12P-PINK	1 Case(s)
M900-12G-GREEN	1 Case(s)
M900-12B-BLUE	1 Case(s)
M900-12Y-YELLOW	1 Case(s)
M900-12AS-ASSORTED	1 Case(s)

EASYDIP Stainless Steel Holder

Made of Stainless Steel. Will hold up to 6 Jars.

<u>Catalog Number</u>	<u>Volume</u>
M906	1 ea.



Metal Lid for M480 Cassette

Metal Lid for M480 Cassette.
Qty/Pk 25

Catalog Number	Volume
M481	1 ea.

Slide Master

(An Innovative Immunohistochemistry Humidity Chamber)

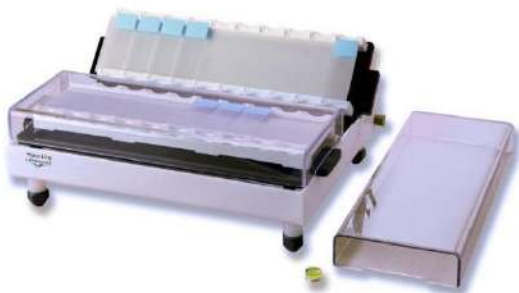
Histo-Line Laboratories proudly introduces Slide Master. A humidity chamber designed by a histotechnologist that eliminates the majority of individual slide handling. Slide Master has three different parts: A humidity chamber, two individual slide holders with white contrast bars, and a waste receptacle. It has been designed so that all three components are compact and easy to use. A maximum of 20 slides can be used per unit.

This is how it works. A hydrophobic barrier (PAP Pen, Catalog #LP0001) is drawn around the tissue section and slides are put in a special slide holder that secures them into place. Drops of antibody are placed on the slides and incubated. After incubation, the individual slide holders can be tilted and secured at a 45 degree angle. All 20 slides are rinsed off in one easy motion and the buffer (PBS-Tween 20, Catalog # ABA125 or TBS-Tween 20, Catalog # TBS125) drains into the waste receptacle. Slides are gently blotted (tissue paper) at the bottom portion of the hydrophobic barrier, which draws off any remaining liquid on the tissue. The slide holders are then placed back in the horizontal position and incubation and rinse steps are repeated in the same fashion.

For chromogen development, the Slide Master unit has a contrast bar that changes the background from black to white. The black background produces high contrast so that the tissues mounted glass slides can be easily seen, and the white background produces high contrast and allows the technician to monitor the chromogen development. Slides are then rinsed and counterstained and are then ready for coverslipping. Slide Master is very easy to use. It is light weight and durable.

By making the hydrophobic barrier around the tissue section as small as possible, the total volume of antibody reagent can be significantly reduced per slide. Instead of using 100-200 microliters of antibodies per tissue section usually 50 microliters will completely cover small tissues and 100 microliters will cover larger tissues. With this method, slide staining is much more efficient, more consistent, drying-out of slides is minimized, and the cost of reagents is reduced.

Catalog Number	Volume
E00001	1 ea.



Slide file Storage System 100 Positions

Each Slide File Storage System includes a slide box and a removable tray. A tinted hinged cover makes the contents of the box easy to see at a glance. The base is available in five different colors to help in slide classification and to minimize the possibility of sample mix-up.

The key to the Slide File System is a removable tray inside the storage box having a hundred individual numbered slots. All slides are stored upright for easier insertion and removal. Simply tilt them forward and backward with one finger to easily and rapidly pick up the slide you need. A unique feature with this system is to be able to read bar codes without having to remove the slides from the box.

For space saving purposes, you can double the amount of slides simply by storing two slides per slot. For maximum storage space, simply remove the tray and line up 400 slides in 3 rows for long term storage. Will resist temperatures between -80 C and +80 C. Not autoclavable.

Dimensions: 82 x 245 x 86 mm H (3 1/4 x 9 5/8 x 3 3/8 in. H)

Catalog Number	Volume
M700-100W-WHITE	1 Case(s)

Stain Tray Slide Staining System

Made of ABS Plastic

Another user-friendly approach to immunohistochemistry staining. This tray is also suitable not only for routine staining requiring a humid chamber but is also ideal for Hematology, Cytology and Microbiology laboratories. Manipulation is made safe and easy by using only one hand.

The Stain Tray has a black base made of tough ABS plastic withstanding a wide range of chemicals (Avoid chlorinated hydrocarbons). It will accept up to 20 slides on four plastic rails covered with a polymer strip to perfectly hold slides even if tray is held at an angle. When humidity is needed, wells between rails will hold up to one ml of water securely without splashing. Middle wells will hold up to 2 ml each. Rails are raised not only to avoid water touching the slides but to make them more easily retrievable. The base will also hold excess stain solution dripping from the slides. Four rubber feet ensure greater base stability. Units are stackable for space saving purposes.

Two covers are available:

A clear one (M920-1) allowing for visual examination. Made of PETG with a temperature range of -20 C to +60 C.

A black lid (M920-2) for fluorescent work. Made of ABS with a temperature range of -80 C to +80 C.

Dimensions with cover: 38 W x 24 D x 4.5 H cm (15 W x 9 3/8 D x 1 3/4 H in.)

Catalog Number	Volume
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M920-1	1 Clear
M920-2	1 Black



Primary Antibodies

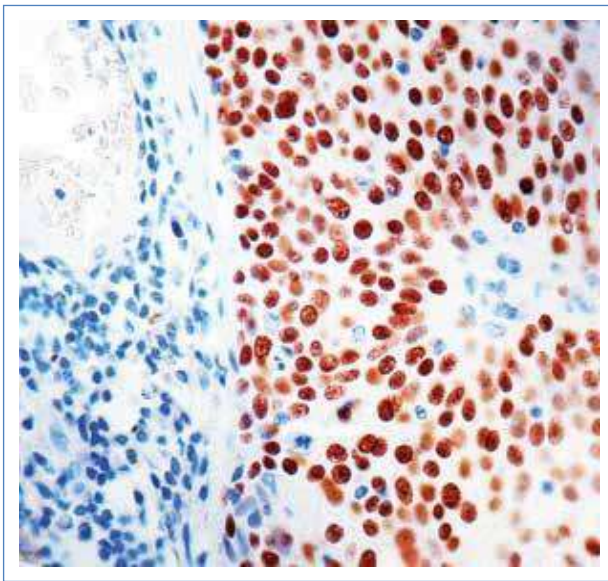
Histo-Line Laboratories offers an entire range of ready-to-use and concentrated antibodies optimized to provide high quality staining when used for immunohistochemical applications. Our rabbit monoclonal antibodies are also available for enhanced specificity and sharp signal.

FORMAT AND PACK SIZE

Concentrated Antibodies: Designed for individuals who want to have more flexibility in their immunostaining protocols. Each antibody is thoroughly quality control tested to cGMP standards. A recommended dilution factor is provided with each antibody. **Pack Size:** Concentrated antibodies are available in 0,1 ml, 0,5 ml and 1 ml vials.

Ready-to-Use Antibodies: These antibodies have been quality control tested and require no further dilution or titration.

Pack Size: Ready-to-use antibodies are available in 6 ml or 7 ml vials.



Studies suggest p40 has a markedly higher specificity than p63 while retaining the same sensitivity for squamous cell carcinoma. This eliminates the potential pitfall of misinterpreting a p63-positive adenocarcinoma or unsuspected lymphoma as squamous cell carcinoma¹. The image shows lung squamous cell carcinoma stained with p40.

Research Antibodies

Regulatory Status: RUO (Research Use Only)

Carcinoembryonic Antigen (CEA) / CD66; Clone C66/1030 (Concentrate)

Species: Mouse
Immunogen: Recombinant full-length human CEA protein
Clone: C66/1030
Isotype: IgG1, kappa
Species Reactivity: Human, Others not known.
Positive Control: MCF7 or 293T cells. Colon carcinoma.
Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
Status: RUO

Catalog Number	Volume
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RA0490-C.1	0.1 ml
RA0490-C.5	0.5 ml
RA0490-C1	1 ml

Monoclonal Concentrate

ACTH (Adrenocorticotrophic Hormone); Clone 2F6 (Concentrate)

Species: Mouse
Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH Clone: 2F6
Isotype: IgG1, kappa
Species Reactivity: Human, Mouse, and Rat. Expected to show a broad species reactivity.

Positive Control: Normal pituitary gland or pituitary tumor.
Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH. Status: RUO

Catalog Number	Volume
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RA0267-C.1	0.1 ml
RA0267-C.5	0.5 ml



ACTH (Adrenocorticotrophic Hormone); Clone 57 (Concentrate)

Species: Mouse
Immunogen: N-terminal fragment of human ACTH conjugated to KLH
Clone: 57
Isotype: IgG1, kappa
Species Reactivity: Human and Rat. Expected to show a broad species reactivity.
Positive Control: Normal pituitary gland or pituitary tumor.
Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.
Status: RUO

Catalog Number	Volume
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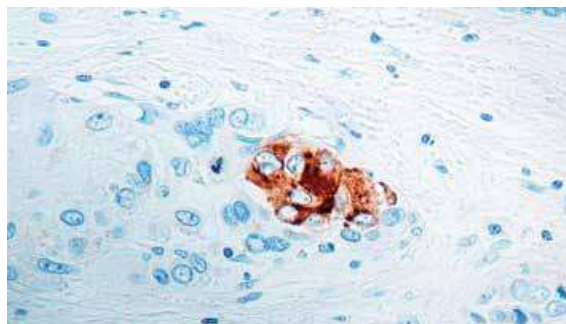
RA0266-C.1	0.1 ml
RA0266-C.5	0.5 ml

ACTH (Adrenocorticotrophic Hormone); Clone AH26 & 57 (Concentrate)

Species: Mouse
Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH (AH26); N-terminal fragment of human ACTH conjugated to KLH (57).
Clone: AH26 & 57
Isotype: IgG1, kappa (AH26); IgG1, kappa (57).
Species Reactivity: Human, Mouse, and Rat. Expected to show a broad species reactivity.
Positive Control: Normal pituitary gland or pituitary tumor.
Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.
Status: RUO

Catalog Number	Volume
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RA0268-C.1	0.1 ml
RA0268-C.5	0.5 ml



ACTH (Adrenocorticotrophic Hormone); Clone AH26 (Concentrate)

Species: Mouse

Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH

Clone: AH26

Isotype: IgG1, kappa

Species Reactivity: Human, Mouse and Rat. Expected to show a broad species reactivity.

Positive Control: Normal pituitary gland or pituitary tumor.

Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH).

Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0265-C.1	0.1 ml
RA0265-C.5	0.5 ml

Actin, Muscle Specific (Muscle Cell Marker); Clone HHF35 (Concentrate)

Species: Mouse

Immunogen: SDS extract of human myocardium.

Clone: HHF35

Isotype: IgG1, kappa

Species Reactivity: Human, Rabbit, and Rat. Others not known.

Positive Control: Muscle or sarcoma.

Specificity: This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0405-C.1	0.1 ml
RA0405-C.5	0.5 ml

Actin, Muscle Specific (Muscle Cell Marker); Clone MSA/953 (Concentrate)

Species: Mouse

Immunogen: Recombinant human actin protein.

Clone: MSA/953

Isotype: IgG1, kappa

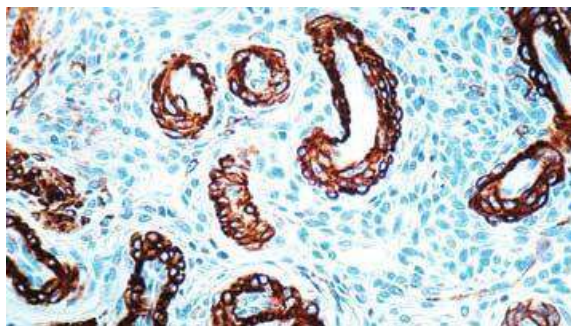
Species Reactivity: Human, Rabbit, and Rat. Others not known.

Positive Control: Muscle or sarcoma.

Specificity: This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0406-C.1	0.1 ml
RA0406-C.5	0.5 ml

**Actin, Smooth Muscle (Leiomyosarcoma Marker); Clone 1A4 (Concentrate)**

Species: Mouse

Immunogen: N-terminal decapeptide of alpha smooth muscle isoform of actin and conjugated to KLH.

Clone: 1A4

Isotype: IgG2a, kappa

Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Sheep, Goat, Cat, Dog, Rabbit, Mouse, Rat, Guinea Pig and Chicken.

Others not known.

Positive Control: Blood vessels in all tissues, smooth muscle or leiomyosarcoma.

Specificity: This MAb is highly specific to actin from smooth muscles. Its epitope lies in the first four N-terminal amino acids.

This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0001-C.1	0.1 ml
RA0001-C.5	0.5 ml

Actin, Smooth Muscle (Leiomyosarcoma Marker); Clone ACTA2/791 (Concentrate)

Species: Mouse

Immunogen: Recombinant human ACTA2 protein

Clone: ACTA2/791

Isotype: IgG2a, kappa

Species Reactivity: Human. Shows a broad reactivity.

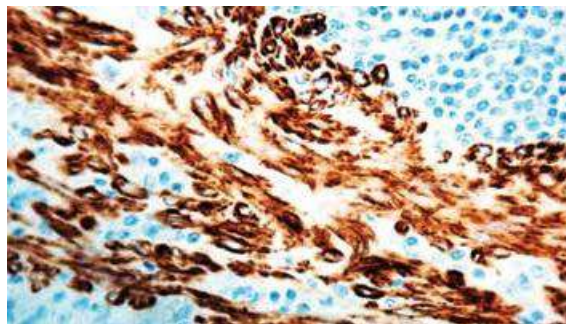
Positive Control: Blood vessels in all tissues, smooth muscle or leiomyosarcoma.

Specificity: This MAb is highly specific to actin from smooth muscles. This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. In most cases of rhabdomyosarcoma, this antibody yields negative

results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0002-C.1	0.1 ml
RA0002-C.5	0.5 ml



AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone C3 (Concentrate)

Species: Mouse

Immunogen: Alpha fetoprotein (AFP) purified from serum of a hepatoma patient

Clone: C3

Isotype: IgG2a, kappa

Species Reactivity: Human, Monkey, Dog, and Pig. It does not react with Cow, Dog, Mouse, and Rat.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: This MAb is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0003-C.1	0.1 ml
RA0003-C.5	0.5 ml

AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone FETA/810 (Concentrate)

Species: Mouse

Immunogen: Recombinant human alpha fetoprotein

Clone: FETA/810

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: This MAb recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP). It is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0004-C.1	0.1 ml
RA0004-C.5	0.5 ml

AMACR / p504S (Prostate Cancer Marker); Clone 13H4 (Concentrate)

Species: Rabbit

Immunogen: Recombinant full length human AMACR protein

Clone: 13H4

Isotype: IgG

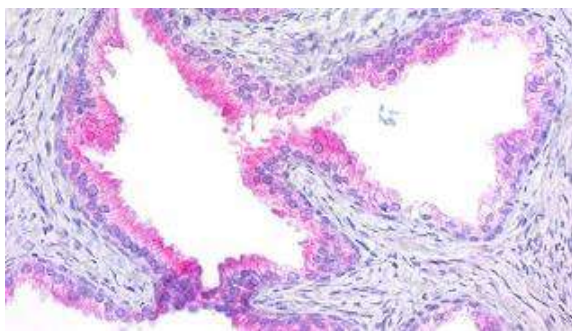
Species Reactivity: Human. Others not known.

Positive Control: HEK cells or Prostate Adenocarcinoma.

Specificity: This antibody recognizes a protein of 54kDa, which is identified as AMACR, also known as p504S.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0353-C.1	0.1 ml
RA0353-C.5	0.5 ml

**AMACR / p504S (Prostate Cancer Marker); Clone AMACR/2748R (Concentrate)**

Species: Rabbit

Immunogen: Recombinant human AMACR protein fragment (around aa 297-394), exact sequence is proprietary.

Clone: AMACR/2748R

Isotype: IgG

Species Reactivity: Human. Others not known.

Positive Control: HEK cells, Prostate Adenocarcinoma.

Specificity: This antibody recognizes a protein of 42kDa, which is identified as AMACR, also known as p504S.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0526-C.1	0.1 ml
RA0526-C.5	0.5 ml
RA0526-C1	1 ml

AMP Deaminase, Isoform E (AMPD3) (Erythroid Marker); Clone AMPD3/901 (Concentrate)

Species: Mouse

Immunogen: Recombinant human AMPD3 protein

Clone: AMPD3/901

Isotype: IgG2b, kappa

Species Reactivity: Human. Others not known.

Positive Control: RBC. Fetal liver; Spleen or Placenta.

Specificity: This antibody recognizes a protein of ~90kDa, which is identified as Adenosine Monophosphate Deaminase, isoform E (AMPD3).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0423-C.5	0.5 ml

Androgen Receptor (Marker of Androgen Dependence); Clone AR441 & DHTR/882 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide, aa 299-315, (STEDTAEYSPFKGGYTK) of human AR (AR441); Recombinant human DHTR protein (DHTR/882)

Clone: AR441 & DHTR/882

Isotype: IgG1, kappa & IgG1, kappa

Species Reactivity: Human. Does not react with mouse. Others not known

Positive Control: LNCap cells or Prostate carcinoma

Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0012-C.1	0.1 ml
RA0012-C.5	0.5 ml



Androgen Receptor (Marker of Androgen Dependence); Clone AR441 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide, aa 299-315, (STEDTAEYSPFKGGYTK) of human AR

Clone: AR441

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with mouse. Others not known.

Positive Control: LNCap cells or Prostate carcinoma.

Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0010-C.1	0.1 ml
RA0010-C.5	0.5 ml

Androgen Receptor (Marker of Androgen Dependence); Clone DHTR/882 (Concentrate)

Species: Mouse

Immunogen: Recombinant human DHTR protein

Clone: DHTR/882

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with mouse. Others not known.

Positive Control: LNCap cells or Prostate carcinoma

Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0011-C.1	0.1 ml
RA0011-C.5	0.5 ml

Arginase 1 (Hepatocellular Carcinoma Marker); Clone ARG1/1125 (Concentrate)

Species: Mouse

Immunogen: Recombinant fragment (87 amino acid residues around 1-150) of human ARG1 protein.

Clone: ARG1/1125

Isotype: IgG2b, kappa

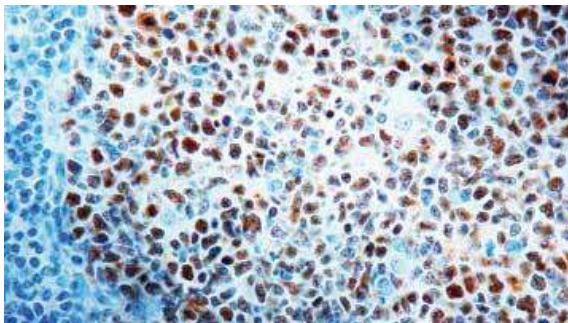
Species Reactivity: Human. Others not known.

Positive Control: 293T cells. Hepatocellular Carcinoma (HCC)

Specificity: This antibody recognizes a protein of 35-38kDa, which is identified as Arginase 1 (ARG1).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0457-C.1	0.1 ml
RA0457-C.5	0.5 ml
RA0457-C1	1 ml

**Arginase 1 (Hepatocellular Carcinoma Marker); Clone ARG1/1126 (Concentrate)**

Species: Mouse

Immunogen: Recombinant fragment (87 amino acid residues around 1-150) of human ARG1 protein.

Clone: ARG1/1126

Isotype: IgG3, kappa

Species Reactivity: Human. Others not known.

Positive Control: 293T cells. Hepatocellular Carcinoma (HCC).

Specificity: This antibody recognizes a protein of 35-38kDa, which is identified as Arginase 1 (ARG1).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0458-C.1	0.1 ml
RA0458-C.5	0.5 ml
RA0458-C1	1 ml

ATRX; Clone AX1 (Concentrate)

Species: Mouse

Immunogen: Recombinant protein fragment of human ATRX.

Clone: AX1

Isotype: IgG1/k

Species Reactivity: Human

Positive Control: 1p/19q co-deleted glioma.

Specificity: Reacts specifically with ATRX in tissue sections.

Status: RUO

Manufactured By: Dianova GmbH

<u>Catalog Number</u>	<u>Volume</u>
DIA-AX1	0.5 ml

Bax (Apoptosis Marker); Clone 2D2 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide, aa 3-16 (Cys-GSGEQPRGGGPTSS) of human bax protein.

Clone: 2D2

Isotype: IgG1

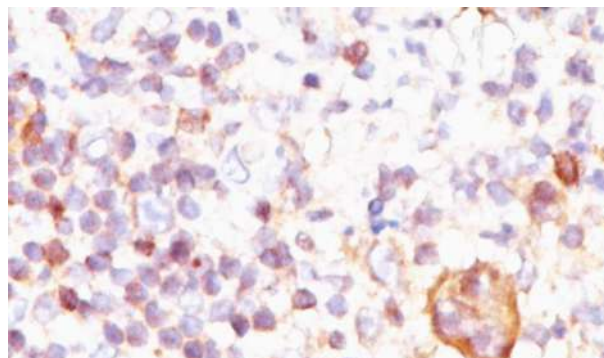
Species Reactivity: Human and Monkey. Does not react with mouse and rat. Others not known.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.

Specificity: Recognizes a protein of 21kDa, identified as the Bax protein. This MAb is highly specific to Bax and shows no cross-reaction with Bcl-2 or Bcl-X protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0013-C.1	0.1 ml
RA0013-C.5	0.5 ml



BCL10 (MALT-Lymphoma Marker); Clone BL10/411 (Concentrate)

Species: Mouse
 Immunogen: Human BCL10 recombinant protein (epitope aa 122-168)
 Clone: BL10/411
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: WEHI-231 or Ramos cells or lymphoma.
 Specificity: This antibody labels subpopulations of normal B-cells and T-cells and is a useful tool for the sub-classification of lymphomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0347-C.1	0.1 ml
RA0347-C.5	0.5 ml

Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone 100/D5 & 124 (Concentrate)

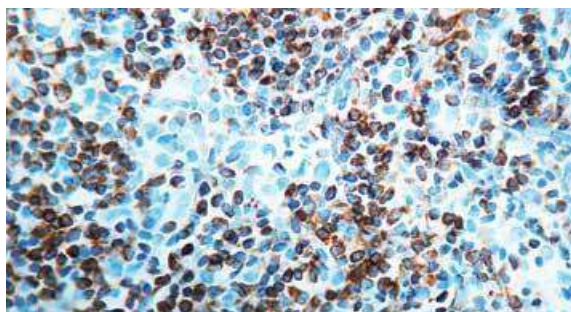
Species: Mouse
 Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 (100/D5 & 124)
 Clone: 100/D5 & 124
 Isotype: IgG1, kappa (100/D5); IgG1, kappa (124)
 Species Reactivity: Human. Does not react with mouse and rat. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0017-C.1	0.1 ml
RA0017-C.5	0.5 ml

Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone 100/D5 & BCL2/796

Species: Mouse
 Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein (100/D5); Recombinant human Bcl-2 protein (BCL2/796).
 Clone: 100/D5 & BCL2/796
 Isotype: IgG1, kappa (100/D5); IgG1, kappa (BCL2/796).
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0020-C.1	0.1 ml
RA0020-C.5	0.5 ml

**Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone BCL2/782 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human Bcl-2 protein
 Clone: BCL2/782
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0018-C.1	0.1 ml
RA0018-C.5	0.5 ml

Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone BCL2/796 (Concentrate)

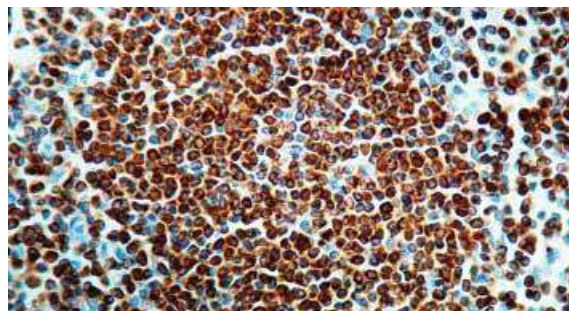
Species: Mouse
 Immunogen: Recombinant human Bcl-2 protein
 Clone: BCL2/796
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0019-C.1	0.1 ml
RA0019-C.5	0.5 ml

Bcl-2 (Apoptosis and Follicular Lymphoma Marker); Clone 100/D5 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein.
 Clone: 100/D5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0015-C.1	0.1 ml
RA0015-C.5	0.5 ml



Bcl-2 (Apoptosis and Follicular Lymphoma Marker); Clone 124 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein
 Clone: 124
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0016-C.1	0.1 ml
RA0016-C.5	0.5 ml

Bcl-6 (Follicular Lymphoma Marker); Clone IG191E/A8 (Concentrate)

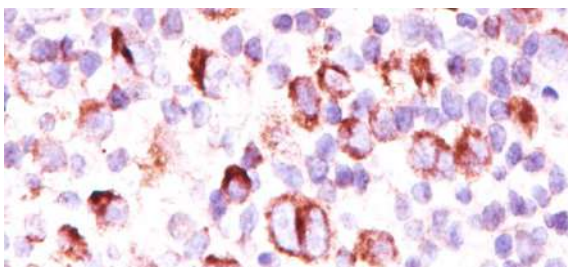
Species: Mouse
 Immunogen: Recombinant human bcl-6 protein
 Clone: G191E/A8
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: Raji or Ramos cells. Tonsil or Hodgkin's lymphoma.
 Specificity: Recognizes a protein of 95kDa, which is identified as Bcl-6. The Reed-Sternberg cells of classical Hodgkin lymphoma are Bcl-6 negative whereas the large ("L&H") cells of NLPHL are Bcl-6 positive. In contrast, anti-Bcl-6 rarely stains mantle-cell lymphoma and MALT lymphoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0024-C.1	0.1 ml
RA0024-C.5	0.5 ml

Bcl-X (Apoptosis Marker); Clone 2H12 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVDVFLS) of human Bcl-X protein
 Clone: 2H12
 Isotype: IgG2a
 Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.
 Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0022-C.1	0.1 ml
RA0022-C.5	0.5 ml

**Bcl-X (Apoptosis Marker); Clone BX006 & 2H12 (Concentrate)**

Species: Mouse
 Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVDVFLS) of human Bcl-X protein
 Clone: BX006 & 2H12
 Isotype: IgG2a (BX006) & IgG2a (2H12)
 Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.
 Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0023-C.1	0.1 ml
RA0023-C.5	0.5 ml

Bcl-X (Apoptosis Marker); Clone BX006 (Concentrate)

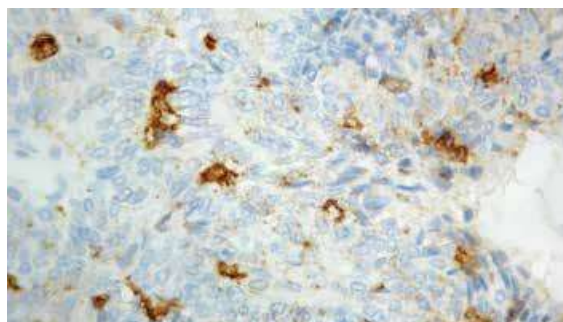
Species: Mouse
 Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVDVFLS) of human Bcl-X protein.
 Clone: BX006
 Isotype: IgG2a
 Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.
 Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0021-C.1	0.1 ml
RA0021-C.5	0.5 ml

Beta-2 Microglobulin (Renal Failure & Tumor Marker); Clone B2M/1118 (Concentrate)

Species: Mouse
 Immunogen: Full length recombinant human B2M protein
 Clone: B2M/1118
 Isotype: IgG2b, kappa
 Species Reactivity: Human and non-human primates. Others not known.
 Positive Control: HL-60 or HeLa cells. Melanomas and Lymphoma. Carcinoma of Stomach, Cervix, Endometrial, Kidney or Colon.
 Specificity: This antibody is specific for the 12kDa protein known as Beta-2 Microglobulin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0424-C.5	0.5 ml



Beta-2 Microglobulin (Renal Failure & Tumor Marker); Clone B2M/961 (Concentrate)

Species: Mouse

Immunogen: Full length recombinant human B2M protein

Clone: B2M/961

Isotype: IgG2b, kappa

Species Reactivity: Human and non-human primates. Others not known.

Positive Control: HL-60 or HeLa cells. Melanomas and Lymphoma. Carcinoma of Stomach, Cervix, Endometrial, Kidney or Colon.

Specificity: This antibody recognizes a protein of 12kDa, identified as Beta-2 Microglobulin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0425-C.1	0.1 ml
RA0425-C.5	0.5 ml

Bromodeoxyuridine (BrdU) (Proliferation Marker); Clone 85-2C8 (Concentrate)

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to hemocyanine (isolated from *Helix pomatia*)

Clone: 85-2C8

Isotype: IgG1

Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU.

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0378-C.1	0.1 ml
RA0378-C.5	0.5 ml

Bromodeoxyuridine (BrdU) (Proliferation Marker); Clone BRD.3 (Concentrate)

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to BSA

Clone: BRD.3

Isotype: IgG1

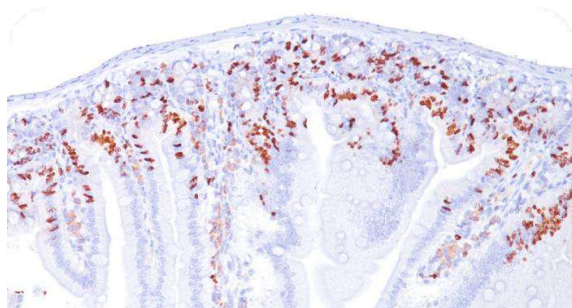
Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0377-C.1	0.1 ml
RA0377-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker); Clone BRD469 (Concentrate)**

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH

Clone: BRD469

Isotype: IgG1

Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0372-C.1	0.1 ml
RA0372-C.5	0.5 ml

Bromodeoxyuridine (BrdU) (Proliferation Marker); Clone BRD494 (Concentrate)

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH

Clone: BRD494

Isotype: IgG1

Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0374-C.1	0.1 ml
RA0374-C.5	0.5 ml

Bromodeoxyuridine (BrdU) (Proliferation Marker); Clone BU20a (Concentrate)

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH

Clone: BU20a

Isotype: IgG1

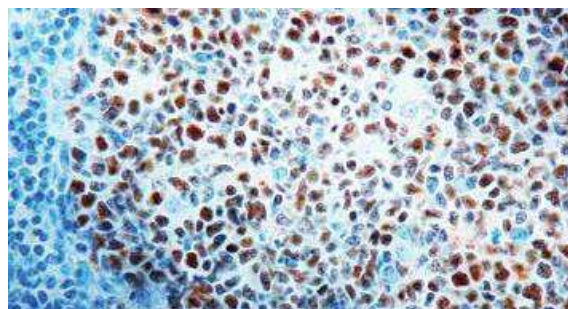
Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0375-C.1	0.1 ml
RA0375-C.5	0.5 ml



Bromodeoxyuridine (BrdU) (Proliferation Marker); Clone MoBu-1 (Concentrate)

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to hemocyanine (isolated from *Helix pomatia*)

Clone: MoBu-1

Isotype: IgG1

Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0376-C.1	0.1 ml
RA0376-C.5	0.5 ml

CA19-9/Sialyl Lewis a (GI Tumor Marker); Clone 121SLE (Concentrate)

Species: Mouse

Immunogen: Precipitin lines obtained aGer immuno-diffusion using monoclonal antibody 116-NS-19-9 and mucins isolated from an ovarian cyst of a Lewis A+B- patient (0Le).

Clone: 121SLE

Isotype: IgM, kappa

Species Reactivity: Human. Others not known.

Positive Control: Stomach

Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewis a structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewis a and/or Lewis b blood group antigens.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0397-C.1	0.1 ml
RA0397-C.5	0.5 ml

Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone CALD1/820 & h-CALD (Concentrate)

Species: Mouse

Immunogen: Recombinant human CALD1 protein (CALD1/820); Crude human uterus extract (h-CALD)

Clone: CALD1/820 & h-CALD

Isotype: IgG1, kappa (CALD1/820); IgG1, kappa (h-CALD)

Species Reactivity: Human. Others not known.

Positive Control: Uterus

Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-Caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0030-C.1	0.1 ml
RA0030-C.5	0.5 ml

Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone CALD1/820 (Concentrate)

Species: Mouse

Immunogen: Recombinant human CALD1 protein

Clone: CALD1/820

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Uterus

Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-Caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0029-C.1	0.1 ml
RA0029-C.5	0.5 ml

Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone h-CALD (Concentrate)

Species: Mouse

Immunogen: Crude human uterus extract

Clone: h-CALD

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Uterus

Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0028-C.1	0.1 ml
RA0028-C.5	0.5 ml

Calponin-1 (Smooth Muscle Marker); Clone CALP (Concentrate)

Species: Mouse

Immunogen: Crude human uterus extract

Clone: CALP

Isotype: IgG1, kappa

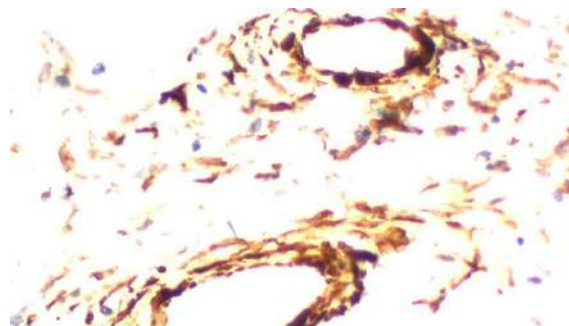
Species Reactivity: Human and Rat. Others not known.

Positive Control: Myoepithelial cells in breast ducts.

Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0099-C.1	0.1 ml
RA0099-C.5	0.5 ml



Calponin-1 (Smooth Muscle Marker); Clone CNN1/832 & CALP (Concentrate)

Species: Mouse

Immunogen: Recombinant human CNN1 protein (CNN1/832); Crude human uterus extract (CALP)

Clone: CNN1/832 & CALP

Isotype: IgG1, kappa (CNN1/832); IgG1, kappa (CALP)

Species Reactivity: Human and Rat. Others not known.

Positive Control: Myoepithelial cells in breast ducts.

Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0101-C.1	0.1 ml
RA0101-C.5	0.5 ml

Calponin-1 (Smooth Muscle Marker); Clone CNN1/832 (Concentrate)

Species: Mouse

Immunogen: Recombinant human CNN1 protein

Clone: CNN1/832

Isotype: IgG1, kappa

Species Reactivity: Human and Rat. Others not known.

Positive Control: Myoepithelial cells in breast ducts.

Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0100-C.1	0.1 ml
RA0100-C.5	0.5 ml

Calreticulin Mutation / CALR; Clone CLA2 (Concentrate)

Species: Mouse

Immunogen: C-neoterminal of mutated CALR.

Clone: CLA2

Isotype: IgG2a

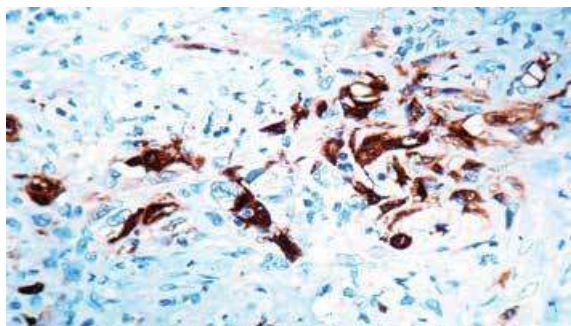
Species Reactivity: Human

Positive Control: Megakaryocytes from CALR mutated PMNs.

Specificity: Human CALR protein expressed by all types of Exon 9 CALR mutations (deletion/insertion in 19p 13.3-13.2 of).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
DIA-CAL-100	0.1 ml
DIA-CAL-250	0.25 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone SPM506 (Concentrate)**

Species: Mouse

Immunogen: Human colon carcinoma extract

Clone: SPM506

Isotype: IgG1, kappa

Species Reactivity: Human and Monkey. Others not known.

Positive Control: MCF7 or 293T cells. Colon carcinoma.

Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0489-C.1	0.1 ml
RA0489-C.5	0.5 ml
RA0489-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66 ; Clone SPM541 (Concentrate)

Species: Mouse

Immunogen: Human colon carcinoma extract

Clone: SPM541

Isotype: IgG1, kappa

Species Reactivity: Human and Monkey. Others not known.

Positive Control: MCF7 or 293T cells. Colon carcinoma.

Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0488-C.1	0.1 ml
RA0488-C.5	0.5 ml
RA0488-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone C66/1009 (Concentrate)

Species: Mouse

Immunogen: Human recombinant CEA protein

Clone: C66/1009

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF7 or 293T cells. Colon carcinoma.

Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0432-C.1	0.1 ml
RA0432-C.5	0.5 ml
RA0432-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone C66/1260 (Concentrate)

Species: Mouse
 Immunogen: Purified human CEA protein
 Clone: C66/1260
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb reacts with nonspecific cross-reacting antigen (NCA). It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0481-C.1	0.1 ml
RA0481-C.5	0.5 ml
RA0481-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone C66/195 (Concentrate)

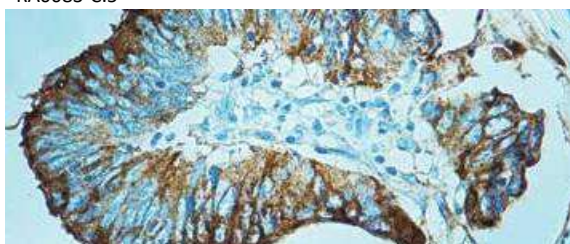
Species: Mouse
 Immunogen: Recombinant full-length human CEA protein
 Clone: C66/195
 Isotype: IgG1, kappa
 Species Reactivity: Human and Monkey. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb reacts with nonspecific cross-reacting antigen (NCA) and shows a cross-reaction with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0485-C.1	0.1 ml
RA0485-C.5	0.5 ml
RA0485-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone C66/261 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CEA protein
 Clone: C66/261
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0083-C.1	0.1 ml
RA0083-C.5	0.5 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone CEA31 (Concentrate)**

Species: Mouse
 Immunogen: Human colon carcinoma extract
 Clone: CEA31
 Isotype: IgG1, kappa
 Species Reactivity: Human and Monkey. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0084-C.1	0.1 ml
RA0084-C.5	0.5 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1 (Concentrate)

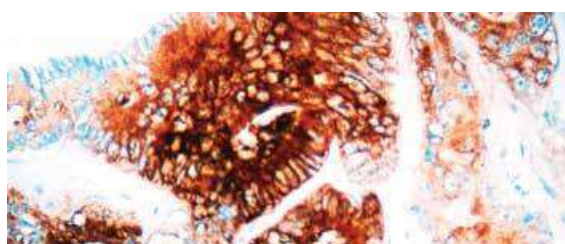
Species: Mouse
 Immunogen: Human colon carcinoma extract
 Clone: COL-1
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0082-C.1	0.1 ml
RA0082-C.5	0.5 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1, CEA31 & C66/261 (Concentrate)

Species: Mouse
 Immunogen: Human colon carcinoma extract (COL-1 & CEA31); CEA recombinant protein (C66/261)
 Clone: COL-1, CEA31 & C66/261
 Isotype: IgG2a (COL-1); IgG1 (CEA31 & C66/261)
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This monoclonal antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. It does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0085-C.1	0.1 ml
RA0085-C.5	0.5 ml



Carcinoembryonic Antigen (CEA) / CD66; Clone SPM330 (Concentrate)

Species: Mouse
 Immunogen: Purified human CEA protein
 Clone: SPM330
 Isotype: IgG1, kappa
 Species Reactivity: Human and Monkey. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family, and is re-expressed in increased amounts in intestinal carcinomas and several other tumors. This MAb reacts with nonspecific cross-reacting antigen (NCA) and shows a cross-reaction with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0486-C.1	0.1 ml
RA0486-C.5	0.5 ml
RA0486-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone SPM551 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CEA protein
 Clone: SPM551
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon Carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0487-C.1	0.1 ml
RA0487-C.5	0.5 ml
RA0487-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone SPM584 (Concentrate)

Species: Mouse
 Immunogen: Human colon carcinoma extract
 Clone: SPM584
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0484-C.1	0.1 ml
RA0484-C.5	0.5 ml
RA0484-C1	1 ml

Carcinoembryonic Antigen, pan (CEA) / CD66; Clone Cocktail (Concentrate)

Species: Mouse
 Immunogen: Recombinant full-length human CEA protein (C66/195; C66/261; C66/1009 & C66/1030)
 Clone: C66/195 & C66/1009 & C66/1030
 Isotype: IgGs
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0491-C.1	0.1 ml
RA0491-C.5	0.5 ml
RA0491-C1	1 ml

CD10 (Membrane Metalloendopeptidase); Clone 56C6 (Concentrate)

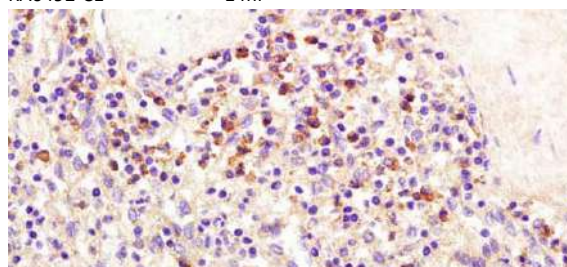
Species: Mouse
 Immunogen: Recombinant human CD10 protein fragment.
 Clone: 56C6
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: Kidney, small intestine, or tonsil.
 Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphatic Leukemia Antigen (CALLA).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0461-C.1	0.1 ml
RA0461-C.5	0.5 ml
RA0461-C1	1 ml

CD100 (Semaphorin-4D); Clone 133-1C6 (Concentrate)

Species: Mouse
 Immunogen: PHA stimulated human peripheral blood lymphocytes.
 Clone: 133-1C6
 Isotype: IgM, kappa
 Species Reactivity: Human and Baboon. Does not react with horse. Others not-tested.
 Positive Control: Daudi, Raji, HUT-78, Kg1a, U937, and human lymphocytes. Human tonsil and lymph node.
 Specificity: Recognizes a homodimeric protein comprised of 50kDa subunits, identified as CD100 (Workshop VI; Code N-L026).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0492-C.1	0.1 ml
RA0492-C.5	0.5 ml
RA0492-C1	1 ml



CD100 (Semaphorin-4D); Clone A8 (Concentrate)

Species: Mouse
 Immunogen: PHA stimulated human peripheral blood lymphocytes
 Clone: A8
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey and Mouse. Others not tested.
 Positive Control: Daudi, Raji, HUT-78, Kg1a, U937, and human lymphocytes. Human tonsils and lymph nodes.
 Specificity: Recognizes a homodimeric protein comprised of 50kDa subunits, identified as CD100.
 Status: RUO

Catalog Number	Volume
RA0493-C.1	0.1 ml
RA0493-C.5	0.5 ml
RA0493-C1	1 ml

CD106 / VCAM1 (Activated Endothelial Cell Marker); Clone 1.4C3 (Concentrate)

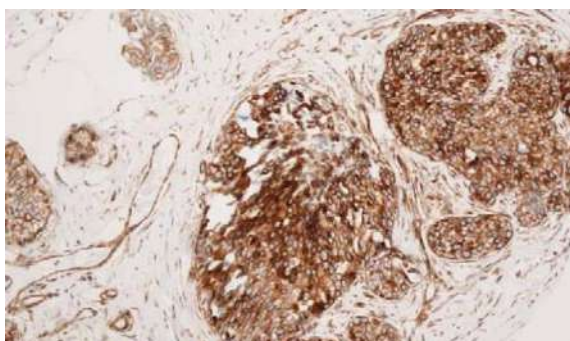
Species: Mouse
 Immunogen: Stimulated human umbilical vein endothelial cells (HUVEC)
 Clone: 1.4C3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Human placenta or tonsil.
 Specificity: Recognizes a protein of 110kDa, identified as CD106 (also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100).
 Status: RUO

Catalog Number	Volume
RA0335-C.1	0.1 ml
RA0335-C.5	0.5 ml

CD106 / VCAM1 (Activated Endothelial Cell Marker); Clone VCAM1/843 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human VCAM1 protein
 Clone: VCAM1/843
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Human placenta or tonsil.
 Specificity: Recognizes a protein of 110kDa, identified as CD106 (also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100).
 Status: RUO

Catalog Number	Volume
RA0336-C.1	0.1 ml
RA0336-C.5	0.5 ml

**CD117/c-Kit (Marker for Gastrointestinal Stromal Tumors); Clone C117/370 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human CD117 protein
 Clone: C117/370
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.
 Specificity: This antibody recognizes a protein of 145kDa, identified as CD117/p145kit.
 Status: RUO

Catalog Number	Volume
RA0168-C.1	0.1 ml
RA0168-C.5	0.5 ml

CD147 / EMMPRIN / Basigin (BSG); Clone BSG/963 (Concentrate)

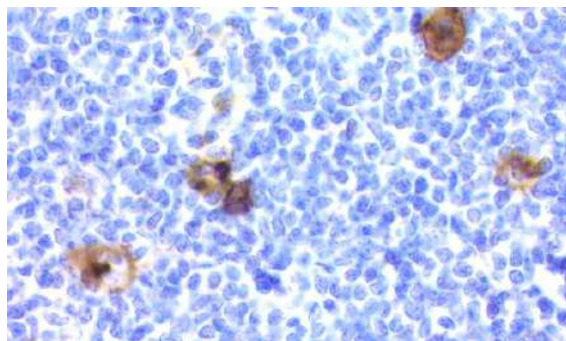
Species: Mouse
 Immunogen: Recombinant human Basigin (BSG) or CD147 protein
 Clone: BSG/963
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: HSB2 cells. Renal Cell, Colon or Testicular carcinoma.
 Specificity: This antibody recognizes an extracellular epitope of human CD147.
 Status: RUO

Catalog Number	Volume
RA0428-C.1	0.1 ml
RA0428-C.5	0.5 ml
RA0428-C1	1 ml

CD15 / FUT4 (Reed-Sternberg Cell Marker); Clone FUT4/815 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human FUT4 protein
 Clone: FUT4/815
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.
 Status: RUO

Catalog Number	Volume
RA0120-C.1	0.1 ml
RA0120-C.5	0.5 ml



CD15 / FUT4 (Reed-Sternberg Cell Marker); Clone Leu-M1 (MMA) (Concentrate)

Species: Mouse
 Immunogen: U937 histiocytic cell line
 Clone: Leu-M1 (MMA)
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0119-C.1	0.1 ml
RA0119-C.5	0.5 ml

CD1a / HTA1 (Mature Langerhans Cells Marker); Clone C1A/711 (Concentrate)

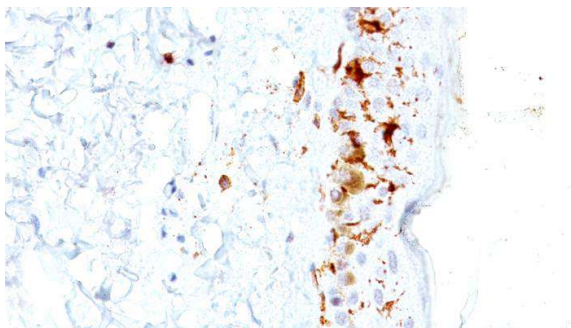
Species: Mouse
 Immunogen: Recombinant human CD1a protein
 Clone: C1A/711
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0032-C.1	0.1 ml
RA0032-C.5	0.5 ml

CD1a / HTA1 (Mature Langerhans Cells Marker); Clone O10 & C1A/711 (Concentrate)

Species: Mouse
 Immunogen: Human thymus cells (O10); Recombinant human CD1a protein (C1A/711)
 Clone: O10 & C1A/711
 Isotype: IgG1, kappa (O10) & IgG1, kappa (C1A/711)
 Species Reactivity: Human. Others not known.
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0033-C.1	0.1 ml
RA0033-C.5	0.5 ml

**CD1a / HTA1 (Mature Langerhans Cells Marker); Clone O10 (Concentrate)**

Species: Mouse
 Immunogen: Human thymus cells
 Clone: O10
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0031-C.1	0.1 ml
RA0031-C.5	0.5 ml

CD20 / MS4A1 (B-Cell Marker); Clone IGEL/773 (Concentrate)

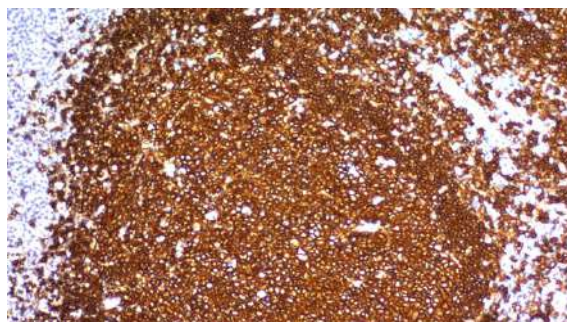
Species: Mouse
 Immunogen: Recombinant human MS4A1 protein
 Clone: IGEL/773
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0046-C.1	0.1 ml
RA0046-C.5	0.5 ml

CD20 / MS4A1 (B-Cell Marker); Clone L26 & IGEL/773 (Concentrate)

Species: Mouse
 Immunogen: Human tonsil B-cells (L26); Recombinant human MS4A1 protein (IGEL/773)
 Clone: L26 & IGEL/773
 Isotype: IgG2a, kappa (L26); IgG2a, kappa (IGEL/773)
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0047-C.1	0.1 ml
RA0047-C.5	0.5 ml



CD20 / MS4A1 (B-Cell Marker); Clone L26 (Concentrate)

Species: Mouse

Immunogen: Human tonsil B-cells

Clone: L26

Isotype: IgG2a, kappa

Species Reactivity: Human, Baboon, and Monkey. Does not react with Cow, Cog, Pig, and Rat. Others not known.

Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.

Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0045-C.1	0.1 ml
RA0045-C.5	0.5 ml

CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ber-H2 & CD30/412 (Concentrate)

Species: Mouse

Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage (Ber-H2); human CD30 recombinant protein (CD30/412)

Clone: Ber-H2 & CD30/412

Isotype: IgG1, kappa (Ber-H2); IgG1, kappa (CD30/412)

Species Reactivity: Human. Others not known.

Positive Control: Hodgkin's lymphoma

Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0051-C.1	0.1 ml
RA0051-C.5	0.5 ml

CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ber-H2 (Concentrate)

Species: Mouse

Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage

Clone: Ber-H2

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Hodgkin's lymphoma

Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0049-C.1	0.1 ml
RA0049-C.5	0.5 ml

CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone CD30/412 (Concentrate)

Species: Mouse

Immunogen: Human CD30 recombinant protein

Clone: CD30/412

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Hodgkin's lymphoma

Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0048-C.1	0.1 ml
RA0048-C.5	0.5 ml

CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ki-1/779 (Concentrate)

Species: Mouse

Immunogen: Recombinant human TNFRSF8 protein

Clone: Ki-1/779

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Hodgkin's lymphoma

Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0050-C.1	0.1 ml
RA0050-C.5	0.5 ml

CD31 (Anti-Mouse); Clone SZ31 (Concentrate)

Species: Rat

Immunogen: Murine amino acid fragment.

Clone: SZ31

Isotype: IgG2a

Species Reactivity: Mouse, Pig. Does not react with Rat or Human.

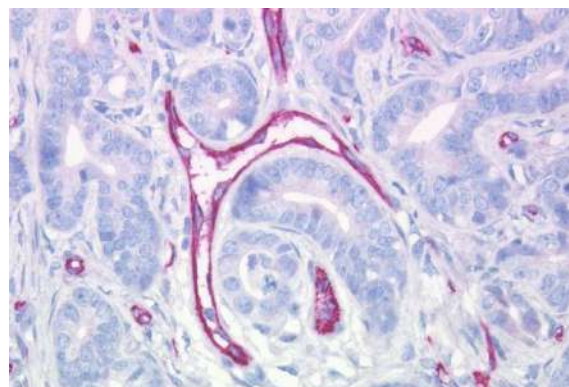
Positive Control: Adult or embryonic mouse endothelial cells.

Specificity: Murine CD31 (PECAM-1).

Status: RUO

Manufactured By: Dianova GmbH

<u>Catalog Number</u>	<u>Volume</u>
DIA-310	0.5 ml



CD31 / PECAM-1 (Endothelial Cell Marker); Clone 158-2B3 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes (Workshop VI)
 Clone: 158-2B3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0262-C.1	0.1 ml
RA0262-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone 1A10 (Concentrate)

Species: Mouse
 Immunogen: Prokaryotic recombinant fusion protein corresponding to a portion of the extracellular domain downstream of the signal sequence of the CD31 (PECAM-1).
 Clone: 1A10
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0260-C.1	0.1 ml
RA0260-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.3 & JC/70A (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CD31 protein (C31.3); Membrane preparation of a spleen from a patient with hairy cell leukemia (JC/70A).
 Clone: C31.3 & JC/70A
 Isotype: IgG1, kappa (C31.3); IgG1, kappa (JC/70A)
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0258-C.1	0.1 ml
RA0258-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.3 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CD31 protein
 Clone: C31.3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat, CCRF-CEM or K-562 Cells. Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0257-C.1	0.1 ml
RA0257-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.7 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CD31 protein
 Clone: C31.7
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.
 Positive Control: Jurkat, CCRF-CEM or K-562 Cells. Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0256-C.1	0.1 ml
RA0256-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone JC/70A (Concentrate)

Species: Mouse
 Immunogen: Membrane preparation of a spleen from a patient with hairy cell leukemia.
 Clone: JC/70A
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0259-C.1	0.1 ml
RA0259-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone PECA1/848 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PECAM1 protein
 Clone: PECA1/848
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0261-C.1	0.1 ml
RA0261-C.5	0.5 ml

CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone HPCA1/763 (Concentrate)

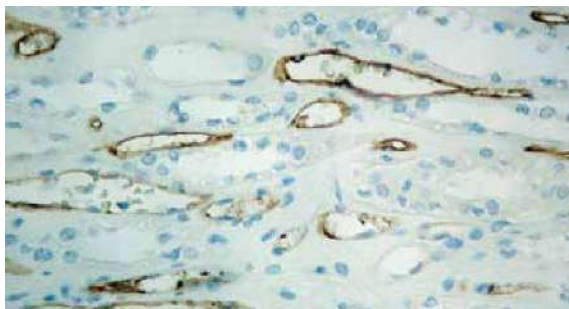
Species: Mouse
 Immunogen: Recombinant human HPCA1 protein
 Clone: HPCA1/763
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma.
 Specificity: This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0053-C.1	0.1 ml
RA0053-C.5	0.5 ml

CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone QBEnd/10 & HPCA1/763 (Concentrate)

Species: Mouse
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta (QBEnd/10); Recombinant human HPCA1 protein (HPCA1/763)
 Clone: QBEnd/10 & HPCA1/763
 Isotype: IgG1, kappa (QBEnd/10); IgG1, kappa (HPCA1/763)
 Species Reactivity: Human. Others not known.
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma.
 Specificity: This monoclonal antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0054-C.1	0.1 ml
RA0054-C.5	0.5 ml

**CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone QBEnd/10 (Concentrate)**

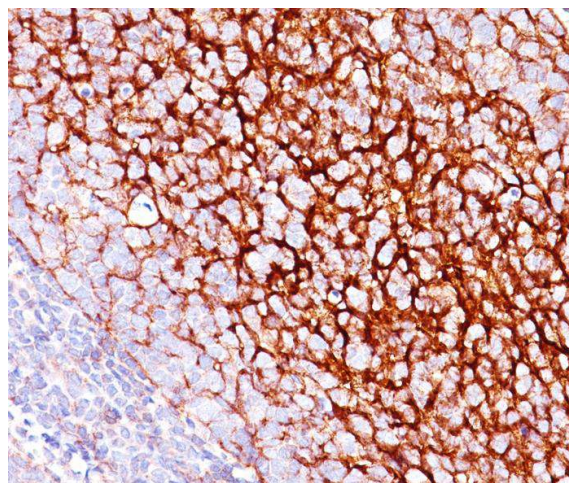
Species: Mouse
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta
 Clone: QBEnd/10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog. Others not known.
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma
 Specificity: This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0052-C.1	0.1 ml
RA0052-C.5	0.5 ml

CD35 / CR1 (Follicular Dendritic Cell Marker); Clone CR1/802 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CR1 protein
 Clone: CR1/802
 Isotype: IgG1, kappa
 Species Reactivity: Human, Baboon, and Monkey. Others not known.
 Positive Control: Follicular dendritic cells (FDC) in tonsil.
 Specificity: Recognizes a protein of 210-220kDa, which is identified as the complement receptor 1 (CR1)/CD35. This antibody is specific for a site in CR1 that is distal from the C3b-binding site, so that it is unable to block CR1 activity. It is highly specific to CR1 and shows no cross-reaction with CR2. This antibody labels follicular dendritic cells and follicular dendritic cell sarcoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0103-C.1	0.1 ml
RA0103-C.5	0.5 ml



CD35 / CR1 (Follicular Dendritic Cell Marker); Clone E11 (Concentrate)

Species: Mouse
 Immunogen: Intact human monocytes
 Clone: E11
 Isotype: IgG1, kappa
 Species Reactivity: Human, Baboon, Cynomolgus Monkey, Rhesus Monkey. Others not known.
 Positive Control: Follicular dendritic cells (FDC) in tonsil.
 Specificity: Recognizes a protein of 210-220kDa, which is identified as the complement receptor 1 (CR1)/CD35. This antibody is specific for a site in CR1 that is distal from the C3b-binding site, so that it is unable to block CR1 activity. It is highly specific to CR1 and shows no cross-reaction with CR2. This antibody labels follicular dendritic cells and follicular dendritic cell sarcoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0102-C.1	0.1 ml
RA0102-C.5	0.5 ml

CD43 (T-Cell Marker); Clone 84-3C1 (Concentrate)

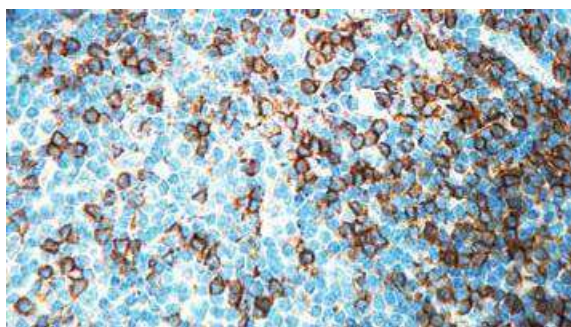
Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 84-3C1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0299-C.1	0.1 ml
RA0299-C.5	0.5 ml

CD43 (T-Cell Marker); Clone DF-T1 (Concentrate)

Species: Mouse
 Immunogen: Myeloblastic KG1 cells
 Clone: DF-T1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0297-C.1	0.1 ml
RA0297-C.5	0.5 ml

**CD43 (T-Cell Marker); Clone SPN/839 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human SPN protein
 Clone: SPN/839
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0298-C.1	0.1 ml
RA0298-C.5	0.5 ml

CD44 / HCAM Std.; Clone 156-3C11 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 156-3C11
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Baboon, and Green Monkey. Others not tested.
 Positive Control: HeLa cells or paracortex in tonsil or lymph node.
 Specificity: Recognizes a cell surface glycoprotein of 80-95kDa (CD44) on lymphocytes, monocytes, and granulocytes (Leukocyte Typing Workshop V). Its epitope is resistant to digestion by trypsin and chymotrypsin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0055-C.1	0.1 ml
RA0055-C.5	0.5 ml
RA0055-C1	1 ml

CD44 / HCAM Std.; Clone HCAM/918 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human HCAM protein
 Clone: HCAM/918
 Isotype: IgG2a, kappa
 Species Reactivity: Human and non-human Primates. Others not tested.
 Positive Control: HeLa cells or paracortex in tonsil or lymph node.
 Specificity: Recognizes a cell surface glycoprotein of 80-95kDa (CD44) on lymphocytes, monocytes, and granulocytes (Leukocyte Typing Workshop V). Its epitope is resistant to digestion by trypsin and chymotrypsin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0056-C.1	0.1 ml
RA0056-C.5	0.5 ml



CD45 / LCA (Leukocyte Marker); Clone 135-4C5 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 135-4C5
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0283-C.1	0.1 ml
RA0283-C.5	0.5 ml

CD45 / LCA (Leukocyte Marker); Clone 136-4B5 (Concentrate)

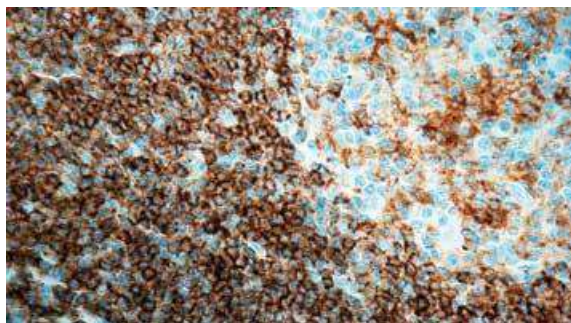
Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 136-4B5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0284-C.1	0.1 ml
RA0284-C.5	0.5 ml

CD45 / LCA (Leukocyte Marker); Clone 2B11 & PD7/26 (Concentrate)

Species: Mouse
 Immunogen: Isolated neoplastic cells from T-cell lymphoma (2B11); human peripheral blood lymphocytes maintained in T-cell growth factor (PD7/26).
 Clone: 2B11 & PD7/26
 Isotype: IgG1, kappa (2B11); IgG1, kappa (PD7/26).
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: This antibody recognizes the CD45 leukocyte common antigen (LCA) family.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0280-C.1	0.1 ml
RA0280-C.5	0.5 ml

**CD45 / LCA (Leukocyte Marker); Clone 2B11 (Concentrate)**

Species: Mouse
 Immunogen: Isolated neoplastic cells from T-cell lymphoma
 Clone: 2B11
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0277-C.1	0.1 ml
RA0277-C.5	0.5 ml

CD45RA (Leukocyte Marker); Clone 111-1C5 (Concentrate)

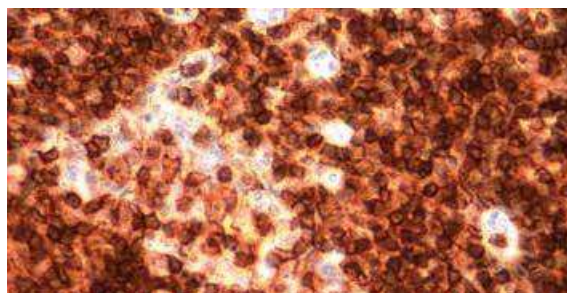
Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 111-1C5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, Raji, IM9 and human lymphocytes. Human lymph nodes and tonsils.
 Specificity: This antibody recognizes a protein of 205kDa-220kDa, identified as CD45RA. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0282-C.1	0.1 ml
RA0282-C.5	0.5 ml

CD45RA (Leukocyte Marker); Clone 158-4D3 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 158-4D3
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, Raji, IM9 and human lymphocytes. Human lymph nodes and tonsils.
 Specificity: This antibody recognizes a protein of 205kDa-220kDa, identified as CD45RA. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0275-C.1	0.1 ml
RA0275-C.5	0.5 ml



CD45RB (Leukocyte Marker); Clone PD7/26 (Concentrate)

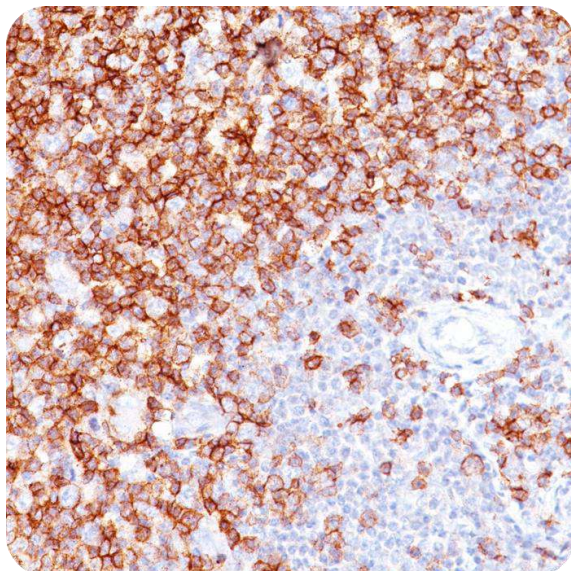
Species: Mouse
 Immunogen: Human peripheral blood lymphocytes maintained in T-cell growth factor
 Clone: PD7/26
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0279-C.1	0.1 ml
RA0279-C.5	0.5 ml

CD45RO (T-Cell Marker); Clone T200/797 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CD45RO protein
 Clone: T200/797
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: CCRF-CEM, Jurkat or MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a 180-185kDa protein, identified as an isoform of leukocyte common antigen (CD45RO). This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B-cells or natural killer cells, but reacts with granulocytes and monocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0281-C.1	0.1 ml
RA0281-C.5	0.5 ml

**CD45RO (T-Cell Marker); Clone UCHL-1 (Concentrate)**

Species: Mouse
 Immunogen: Cultured human T-cells from an IL-2-dependent T-cell line (CA1)
 Clone: UCHL-1
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Chimpanzee, Common Marmoset. Others not known.
 Positive Control: CCRF-CEM, Jurkat or MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a 180-185kDa protein, identified as an isoform of leukocyte common antigen (CD45RO) (4th Leukocyte Typing Workshop: Code No. N31). The epitope recognized by this antibody is sensitive to neuraminidase digestion. This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B-cells or natural killer cells, but reacts with granulocytes and monocytes.

<u>Catalog Number</u>	<u>Volume</u>
RA0274-C.1	0.1 ml
RA0274-C.5	0.5 ml

CD5 (Mantle Cell Lymphoma Marker); Clone C5/473 & CD5/54/F6 (Concentrate)

Species: Mouse
 Immunogen: Human CD5 recombinant protein (C5/473); A synthetic peptide from the intracellular region of human CD5 (CD5/54/F6)
 Clone: C5/473 & CD5/54/F6
 Isotype: IgG1, kappa (C5/473) & IgG1, kappa (CD5/54/F6)
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0037-C.1	0.1 ml
RA0037-C.5	0.5 ml

CD5 (Mantle Cell Lymphoma Marker); Clone C5/473 (Concentrate)

Species: Mouse
 Immunogen: Human CD5 recombinant protein
 Clone: C5/473
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0034-C.1	0.1 ml
RA0034-C.5	0.5 ml

CD5 (Mantle Cell Lymphoma Marker); Clone CD5/54/F6 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide from the intracellular region of human CD5
 Clone: CD5/54/F6
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0036-C.1	0.1 ml
RA0036-C.5	0.5 ml

CD50 / ICAM3; Clone ICAM3/1019 (Concentrate)

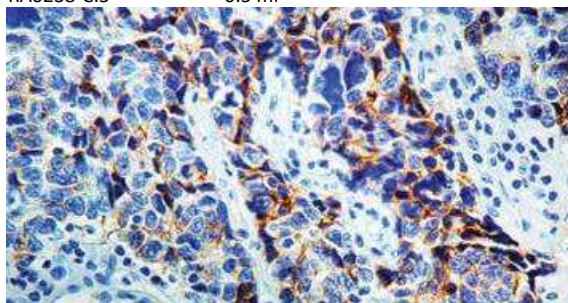
Species: Mouse
 Immunogen: Recombinant human ICAM3 protein
 Clone: ICAM3/1019
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HL-60 or THP-1 cells. Lymph node and tonsil.
 Specificity: This antibody recognizes an N-glycosylated glycoprotein of 120kDa with intra-chain disulfide bonds, identified as CD50 or ICAM-3.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0440-C.1	0.1 ml
RA0440-C.5	0.5 ml
RA0440-C1	1 ml

CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123A8 (56C04) (Concentrate)

Species: Mouse
 Immunogen: Membrane preparation of a small cell lung carcinoma
 Clone: 123A8 (same clone as 56C04)
 Isotype: gG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0238-C.1	0.1 ml
RA0238-C.5	0.5 ml

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123C3.D5 & 123A8 (Concentrate)**

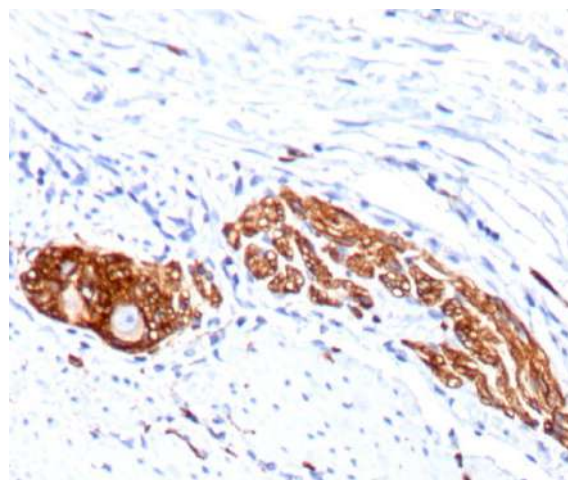
Species: Mouse
 Immunogen: Membrane preparation of a small cell lung carcinoma (123C3.D5 & 123A8)
 Clone: 123C3.D5 & 123A8
 Isotype: IgG1, kappa (123C3.D5); IgG1, kappa (123A8)
 Species Reactivity: Human. Others not known.
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0239-C.1	0.1 ml
RA0239-C.5	0.5 ml

CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123C3.D5 (Concentrate)

Species: Mouse
 Immunogen: Membrane preparation of a small cell lung carcinoma
 Clone: 123C3.D5
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat, and Zebrafish. Others not known.
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0237-C.1	0.1 ml
RA0237-C.5	0.5 ml



CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone NKH1/784 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human NCAM1 protein
 Clone: NKH1/784
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0240-C.1	0.1 ml
RA0240-C.5	0.5 ml

CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone NKH1/795 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human NCAM1 protein
 Clone: NKH1/795
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat and Zebrafish. Others not known.
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0241-C.1	0.1 ml
RA0241-C.5	0.5 ml

CD57 / B3GAT1 (Natural Killer Cell Marker); Clone HNK-1 & NK-1 (Concentrate)

Species: Mouse
 Immunogen: Human peripheral blood mononuclear cells (HNK-1 & NK-1)
 Clone: HNK-1 & NK-1
 Isotype: IgM, kappa (HNK-1 & NK-1)
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: Lymph node or tonsil.
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0357-C.1	0.1 ml
RA0357-C.5	0.5 ml

CD57 / B3GAT1 (Natural Killer Cell Marker); Clone HNK-1 or Leu-7 (Concentrate)

Species: Mouse
 Immunogen: Human peripheral blood mononuclear cells
 Clone: HNK-1 or Leu-7
 Isotype: IgM, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: CCRF-CEM Cells. Lymph node or tonsil.
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0355-C.1	0.1 ml
RA0355-C.5	0.5 ml

CD57 / B3GAT1 (Natural Killer Cell Marker); Clone NK/804 (Concentrate)

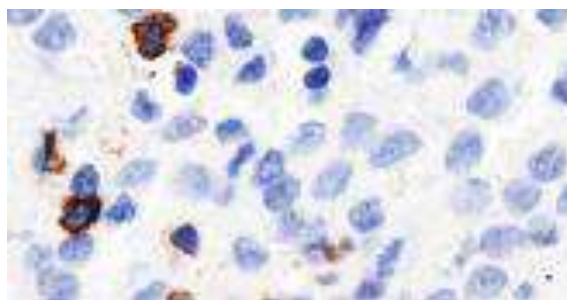
Species: Mouse
 Immunogen: Recombinant human B3GAT1 protein
 Clone: NK/804
 Isotype: IgM, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: Lymph node or tonsil.
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0358-C.1	0.1 ml
RA0358-C.5	0.5 ml

CD57 / B3GAT1 (Natural Killer Cell Marker); Clone NK-1 (Concentrate)

Species: Mouse
 Immunogen: Human peripheral blood mononuclear cells
 Clone: NK-1
 Isotype: IgM, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: Lymph node or tonsil.
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0356-C.1	0.1 ml
RA0356-C.5	0.5 ml



CD6; Clone 3F7B5 (Concentrate)

Species: Mouse
 Immunogen: Human rheumatoid synovial T-cell line ST-1
 Clone: 3F7B5
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: CCRF-CEM, Jurkat cells, Tonsil.
 Specificity: Cell membrane positivity as expressed by thymocytes, mature/activated T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0038-C.1	0.1 ml
RA0038-C.5	0.5 ml

CD6; Clone C6/372 & 3F7B5 (Concentrate)

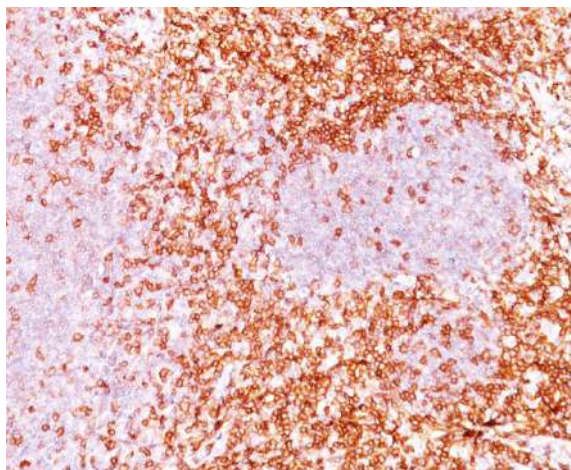
Species: Mouse
 Immunogen: Human recombinant CD6 protein (C6/372); Human rheumatoid synovial T-cell line ST-1 (3F7B5)
 Clone: C6/372 & 3F7B5
 Isotype: IgG1 (C6/372); IgG1 (3F7B5)
 Species Reactivity: Human. Others not known.
 Positive Control: CCRF-CEM, Jurkat cells, tonsil.
 Specificity: Cell membrane positivity as expressed by thymocytes, mature/activated T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0040-C.1	0.1 ml
RA0040-C.5	0.5 ml

CD6; Clone C6/372 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CD6 protein
 Clone: C6/372
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: CCRF-CEM, Jurkat cells, Tonsil.
 Specificity: Cell membrane positivity as expressed by thymocytes, mature/activated T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0039-C.1	0.1 ml
RA0039-C.5	0.5 ml

**CD63 (Late Endosomes Marker); Clone LAMP3/803 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human CD63 protein
 Clone: LAMP3/803
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells. Melanoma or lymphoma.
 Specificity: CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T-cells and B-cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0059-C.1	0.1 ml
RA0059-C.5	0.5 ml

CD63 (Late Endosomes Marker); Clone MX-49.129.5 (Concentrate)

Species: Mouse
 Immunogen: Full length CD63 of human origin
 Clone: MX-49.129.5
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells. Melanoma or lymphoma.
 Specificity: CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T-cells and B-cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0058-C.1	0.1 ml
RA0058-C.5	0.5 ml

CD63 (Late Endosomes Marker); Clone NK1/C3 (Concentrate)

Species: Mouse
 Immunogen: Smooth plasma membrane fraction of MeWo cells
 Clone: NK1/C3
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells. Melanoma or lymphoma.
 Specificity: CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T-cells and B-cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0057-C.1	0.1 ml
RA0057-C.5	0.5 ml

CD68 (Macrophage Marker); Clone C68/684 (Concentrate)

Species: Mouse
 Immunogen: Subcellular fraction of human alveolar macrophages
 Clone: C68/684
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Mouse, Rat, and Cat. Others not known.
 Positive Control: Tonsil, Lymph Node or Spleen.
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0061-C.1	0.1 ml
RA0061-C.5	0.5 ml

CD68 (Macrophage Marker); Clone CD68/G2 (Concentrate)

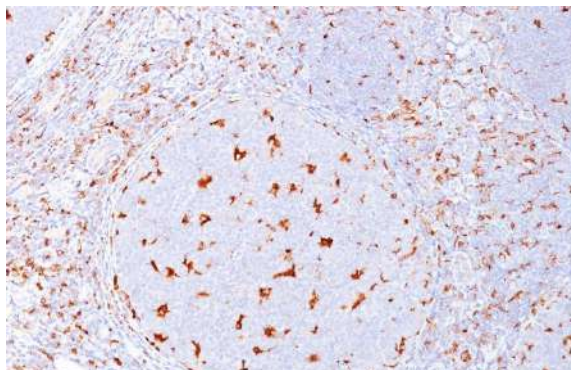
Species: Mouse
 Immunogen: Recombinant human CD68 protein
 Clone: CD68/G2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Lymph Node or Spleen
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0064-C.1	0.1 ml
RA0064-C.5	0.5 ml

CD68 (Macrophage Marker); Clone KP1 & C68/684 (Concentrate)

Species: Mouse
 Immunogen: Subcellular fraction of human alveolar macrophages (KP1); Subcellular fraction of human alveolar macrophages (C68/684)
 Clone: KP1 & C68/684
 Isotype: IgG1, kappa (KP1); IgG1, kappa (C68/684)
 Species Reactivity: Human, Monkey, Mouse, Rat and Cat. Others not known.
 Positive Control: Tonsil, Lymph Node or Spleen.
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0062-C.1	0.1 ml
RA0062-C.5	0.5 ml

**CD68 (Macrophage Marker); Clone KP1 (Concentrate)**

Species: Mouse
 Immunogen: Subcellular fraction of human alveolar macrophages
 Clone: KP1
 Isotype: IgG1, kappa
 Positive Control: Tonsil, Lymph Node or Spleen
 Cellular Localization: Cytoplasmic
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0060-C.1	0.1 ml
RA0060-C.5	0.5 ml

CD68 (Macrophage Marker); Clone LAMP4/824 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human LAMP4 protein
 Clone: LAMP4/824
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Lymph Node or Spleen.
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0063-C.1	0.1 ml
RA0063-C.5	0.5 ml

CD74 (B-Cell Marker); Clone CLIP/813 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CD74 protein
 Clone: CLIP/813
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi or Raji Cells. Tonsil or Lymph Node.
 Specificity: This monoclonal antibody recognizes a protein of ~35kDa, identified as CD74.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0066-C.1	0.1 ml
RA0066-C.5	0.5 ml

CD74 (B-Cell Marker); Clone LN-2 (Concentrate)

Species: Mouse
 Immunogen: SU-DHL-4 lymphoma cells
 Clone: LN-2
 Isotype: IgG1, kappa
 Species Reactivity: Human, Baboon and Mouse. Does not react with Rat. Others not known.
 Positive Control: Daudi or Raji Cells. Tonsil or Lymph Node.
 Specificity: This monoclonal antibody recognizes a protein of ~35kDa, identified as CD74 (Workshop IV).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0065-C.1	0.1 ml
RA0065-C.5	0.5 ml

CD79a (B-Cell Marker); Clone HM47/A9 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide corresponding to aa 202-216 (GTYQDVGSLNIADVQ) of human CD79a protein.

Clone: HM47/A9

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey, Pig, Cow, Mouse and Rat. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0069-C.1	0.1 ml
RA0069-C.5	0.5 ml

CD79a (B-Cell Marker); Clone IGA/515 (Concentrate)

Species: Mouse

Immunogen: Recombinant human IGA protein

Clone: IGA/515

Isotype: IgG1, kappa

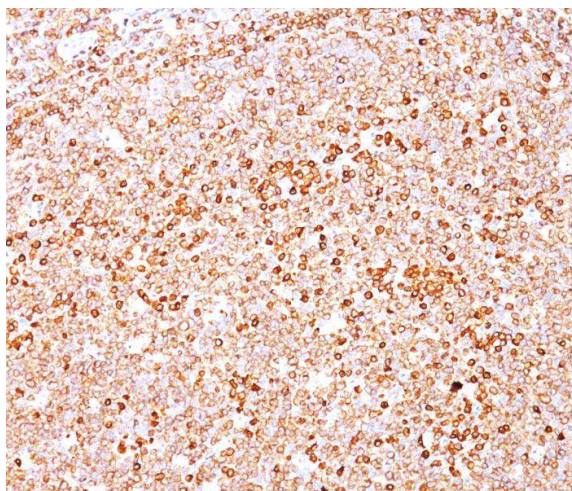
Species Reactivity: Human. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0073-C.1	0.1 ml
RA0073-C.5	0.5 ml

**CD79a (B-Cell Marker); Clone IGA/764 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human IGA protein

Clone: IGA/764

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0072-C.1	0.1 ml
RA0072-C.5	0.5 ml

CD79a (B-Cell Marker); Clone JCB117 & HM47/A9 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide corresponding to aa 202-216 (GTYQDVGSLNIADVQ) of human CD79a protein (JCB117 and HM47/A9).

Clone: JCB117 & HM47/A9

Isotype: IgG1, kappa (JCB117); IgG1, kappa (HM47/A9)

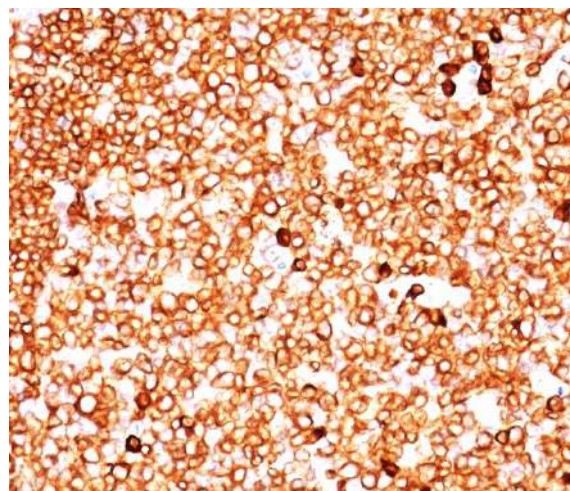
Species Reactivity: Human, Monkey, Pig, Cow, Mouse and Rat. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0071-C.1	0.1 ml
RA0071-C.5	0.5 ml



CD79a (B-Cell Marker); Clone JCB117 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide corresponding to aa 202-216 (GTYQDVGSLNIADVQ) of human CD79a protein.

Clone: JCB117

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0067-C.1	0.1 ml
RA0067-C.5	0.5 ml

CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/144B (Concentrate)

Species: Mouse

Immunogen: A 13 amino acid peptide from C-terminal cytoplasmic domain of alpha chain of human CD8 molecule.

Clone: C8/144B

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: HuT78 or hPBL. Tonsil.

Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0042-C.1	0.1 ml
RA0042-C.5	0.5 ml

CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/468 & C8/144B (Concentrate)

Species: Mouse

Immunogen: Human CD8 recombinant protein (C8/468); A 13 amino acid synthetic peptide from the C-terminal cytoplasmic domain of alpha chain of human CD8 molecule (C8/144B)

Clone: C8/468 & C8/144B

Isotype: IgG1, kappa (C8/468); IgG1, kappa (C8/144B)

Species Reactivity: Human. Others not known.

Positive Control: HuT78 or hPBL. Tonsil.

Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0043-C.1	0.1 ml
RA0043-C.5	0.5 ml

CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/468 (Concentrate)

Species: Mouse

Immunogen: Human CD8 recombinant protein

Clone: C8/468

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: HuT78 or hPBL. Tonsil.

Specificity: CD8 is a 68kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0041-C.1	0.1 ml
RA0041-C.5	0.5 ml

CD99 / MIC2 (Ewing's Sarcoma Marker); Clone 12E7 & MIC2/877 (Concentrate)

Species: Mouse

Immunogen: Human acute lymphocytic leukemia T-cells (12E7); Recombinant human MIC2 protein (MIC2/877)

Clone: 12E7 & MIC2/877

Isotype: IgG1, kappa (12E7); IgG1, kappa (MIC2/877)

Species Reactivity: Human. Others not tested.

Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.

Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0206-C.1	0.1 ml
RA0206-C.5	0.5 ml

CD99 / MIC2 (Ewing's Sarcoma Marker); Clone 12E7 (Concentrate)

Species: Mouse

Immunogen: Human acute lymphocytic leukemia T-cells

Clone: 12E7

Isotype: IgG1, kappa

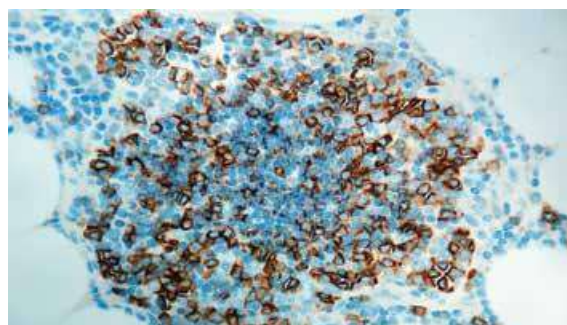
Species Reactivity: Human. Others not tested.

Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.

Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen. This antibody shows a very similar reactivity to other CD99 antibodies (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0204-C.1	0.1 ml
RA0204-C.5	0.5 ml



CD99 / MIC2 (Ewing's Sarcoma Marker); Clone HO36-1.1 (Concentrate)

Species: Mouse
 Immunogen: Purified E-rosette forming cells from human peripheral blood lymphocytes
 Clone: HO36-1.1
 Isotype: IgM, kappa
 Species Reactivity: Human and Rat. Others not tested.
 Positive Control: Pancreas or Ewing's sarcoma.
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen. This antibody shows a very similar reactivity to other CD99 antibodies (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0203-C.1	0.1 ml
RA0203-C.5	0.5 ml

CD99 / MIC2 (Ewing's Sarcoma Marker); Clone MIC2/877 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MIC2 protein
 Clone: MIC2/877
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0205-C.1	0.1 ml
RA0205-C.5	0.5 ml

CDw75 (B-Cell Marker); Clone LN-1 (Concentrate)

Species: Mouse
 Immunogen: Nuclei from pokeweed mitogen-stimulated peripheral blood lymphocytes.
 Clone: LN-1
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa or Daudi Cells. Germinal center B-cells in a lymph node or tonsil. Use LN1's ability to stain surface of erythrocytes as an internal positive control.
 Specificity: Recognizes a neuraminidase-sensitive sialoprotein (CDw75), present on cell membrane and cytoplasm of germinal center B-cells and derived lymphomas. This antibody reacts with RBC precursors of bone marrow, ductal, and ciliated epithelial cells of kidney, breast, prostate, pancreas, lung, and with glioblastomas, astrocytomas, and Reed Sternberg cells in lymphocyte predominant Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
RA0291-C.1	0.1 ml
RA0291-C.5	0.5 ml

CDX2 (GI Epithelial Marker); Clone CDX2/1690 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CDX2 protein fragment (aa150-249) (exact sequence is proprietary)
 Clone: CDX2/1690
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HT29 cells or Colon Carcinoma.
 Specificity: Anti-CDX2 has been useful to establish GI origin of metastatic adenocarcinomas and carcinoids and is especially useful to distinguish metastatic colorectal adenocarcinoma from lung adenocarcinoma. However, mucinous carcinomas of the ovary also express CDX2 protein. It limits the usefulness of this marker in the distinction of metastatic colorectal adenocarcinoma from mucinous carcinoma of the ovary.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0480-C.1	0.1 ml
RA0480-C.5	0.5 ml
RA0480-C1	1 ml

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1341 (Concentrate)

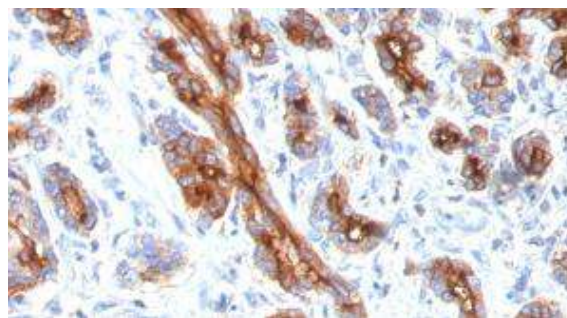
Species: Mouse
 Immunogen: Recombinant human full-length CFTR.
 Clone: CFTR/1341
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0497-C.1	0.1 ml
RA0497-C.5	0.5 ml
RA0497-C1	1 ml

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1342 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human full-length CFTR
 Clone: CFTR/1342
 Isotype: IgG1
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0498-C.1	0.1 ml
RA0498-C.5	0.5 ml
RA0498-C1	1 ml



CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1643 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CFTR fragment (aa258-385) (exact sequence is proprietary).
 Clone: CFTR/1643
 Isotype: IgG2b
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0500-C.1	0.1 ml
RA0500-C.5	0.5 ml
RA0500-C1	1 ml

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1775R (Concentrate)

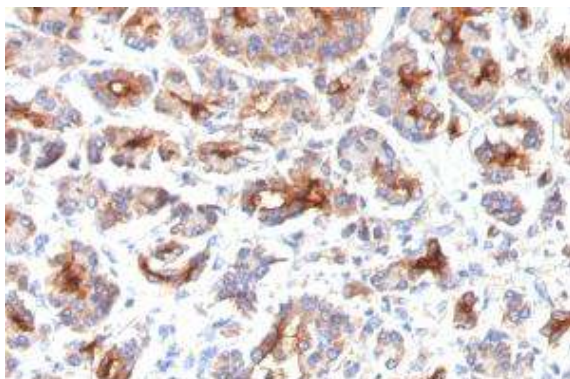
Species: Rabbit
 Immunogen: Recombinant human CFTR fragment (aa258-385) (exact sequence is proprietary).
 Clone: CFTR/1775R
 Isotype: IgG, kappa
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0503-C.1	0.1 ml
RA0503-C.5	0.5 ml
RA0503-C1	1 ml

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1785 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CFTR fragment (aa258-385) (exact sequence is proprietary).
 Clone: CFTR/1785
 Isotype: IgG2b
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0502-C.1	0.1 ml
RA0502-C.5	0.5 ml
RA0502-C1	1 ml

**CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone SPM176 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human full-length CFTR.
 Clone: SPM176
 Isotype: IgG2a
 Species Reactivity: Reacts with human and mouse. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0499-C.1	0.1 ml
RA0499-C.5	0.5 ml
RA0499-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CGA/413 (Concentrate)

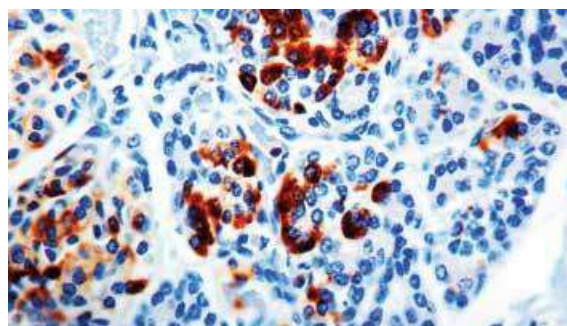
Species: Mouse.
 Immunogen: Recombinant human chromogranin A protein.
 Clone: CGA/413
 Isotype: IgG2b, kappa.
 Species Reactivity: Reacts with Human. Does not react with rat.
 Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Recognizes the Chromogranin A protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0514-C.1	0.1 ml
RA0514-C.5	0.5 ml
RA0514-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CGA/414 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human chromogranin A protein
 Clone: CGA/414
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0090-C.1	0.1 ml
RA0090-C.5	0.5 ml



Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/765 (Concentrate)

Species: Mouse

Immunogen: Recombinant human CHGA protein

Clone: CHGA/765

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0096-C.1	0.1 ml
RA0096-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/777 (Concentrate)

Species: Mouse

Immunogen: Recombinant human CHGA protein

Clone: CHGA/777

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0097-C.1	0.1 ml
RA0097-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/798 (Concentrate)

Species: Mouse

Immunogen: Recombinant human CHGA protein

Clone: CHGA/798

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0098-C.1	0.1 ml
RA0098-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10 & PHE5 (Concentrate)

Species: Mouse

Immunogen: Human pheochromocytoma (LK2H10 & PHE5)

Clone: LK2H10 & PHE5

Isotype: IgG1, kappa (LK2H10 & PHE5)

Species Reactivity: Human, Monkey, Pig, Mouse and Rat.

Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0094-C.1	0.1 ml
RA0094-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10 (Concentrate)

Species: Mouse

Immunogen: Human pheochromocytoma

Clone: LK2H10

Isotype: IgG1, kappa

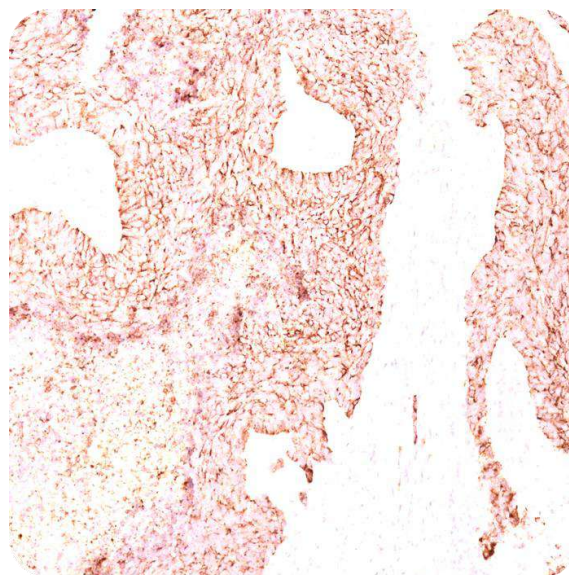
Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Does not react with Guinea Pig, Sheep & Rabbit. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0091-C.1	0.1 ml
RA0091-C.5	0.5 ml



Marker); Clone LK2H10, PHE5 & CGA/414 (Concentrate)

Species: Mouse

Immunogen: Human pheochromocytoma (LK2H10 & PHE5) & recombinant human chromogranin A protein (CGA414).

Clone: LK2H10, PHE5 & CGA/414

Isotype: IgG1, kappa (LK2H10, PHE5 & CGA/414)

Species Reactivity: Human, Monkey, Pig, Mouse and Rat.

Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0095-C.1	0.1 ml
RA0095-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone PHE5 (Concentrate)

Species: Mouse

Immunogen: Human pheochromocytoma

Clone: PHE5

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey. Does not react with

Mouse and Rat. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0093-C.1	0.1 ml
RA0093-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM339 (Concentrate)

Species: Mouse

Immunogen: Human pheochromocytoma

Clone: SPM339

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Does not react with guinea pig, sheep & rabbit. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Recognizes the Chromogranin A protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0512-C.1	0.1 ml
RA0512-C.5	0.5 ml
RA0512-C1	1 ml

Marker); Clone SPM553 (Concentrate)

Species: Mouse

Immunogen: Recombinant human Chromogranin A protein

Clone: SPM553

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Recognizes the Chromogranin A protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0511-C.1	0.1 ml
RA0511-C.5	0.5 ml
RA0511-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM585 (Concentrate)

Species: Mouse.

Immunogen: Human pheochromocytoma.

Clone: SPM585

Isotype: IgG1, kappa.

Species Reactivity: Human & monkey. Does not react with mouse & rat. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Recognizes the Chromogranin A protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0513-C.1	0.1 ml
RA0513-C.5	0.5 ml
RA0513-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clones CGA/413 & CHGA/777 & CHGA/798 (Concentrate)

Species: Mouse

Immunogen: Recombinant human chromogranin A protein.

Clone: CGA/413 & CHGA/777 & CHGA/798

Isotype: IgG's

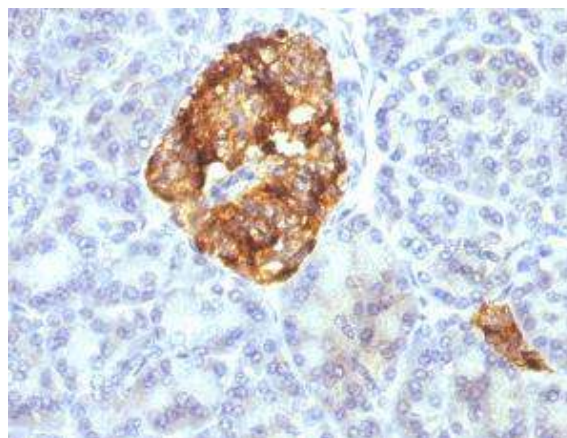
Species Reactivity: Human, monkey, pig, mouse, and rat. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Recognizes the Chromogranin A protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0510-C.1	0.1 ml
RA0510-C.5	0.5 ml
RA0510-C1	1 ml



c-Myc Oncoprotein; Clone 9E10.3 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide, corresponding to aa 408-439 (AEEQLISEEDLLKRREQLKHKLEQLRNSCA) from the C-terminus of human c-Myc, coupled to KLH.

Clone: 9E10.3

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Mouse, Rat, or Chicken. Others not tested.

Positive Control: HL-60 cells or breast carcinoma.

Specificity: This antibody recognizes a transcription factor of 64-67kDa, identified as c-Myc. Its epitope spans between aa 410-419 (EQKLISEEDL) which is a specific portion of an alpha helical region of the human c-Myc protein. This antibody shows no cross-reaction with v-Myc.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0226-C.1	0.1 ml
RA0226-C.5	0.5 ml

c-Myc Oncoprotein; Clone MYC909 (Concentrate)

Species: Mouse

Immunogen: Recombinant human c-Myc protein

Clone: MYC909

Isotype: IgG1, kappa

Species Reactivity: Human. Others not tested.

Positive Control: HL-60 cells or breast carcinoma.

Specificity: This antibody recognizes a transcription factor of 64-67kDa, identified as c-Myc. Its epitope spans between aa 410-419 (EQKLISEEDL) which is a specific portion of an alpha helical region of the human c-Myc protein. This antibody shows no cross-reaction with v-Myc.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0227-C.1	0.1 ml
RA0227-C.5	0.5 ml

Complement 4d (C4d) (Acute Humoral Rejection Marker); Clone C4D204 (Concentrate)

Species: Mouse

Immunogen: Recombinant human Complement 4d protein

Clone: C4D204

Isotype: IgG1, kappa

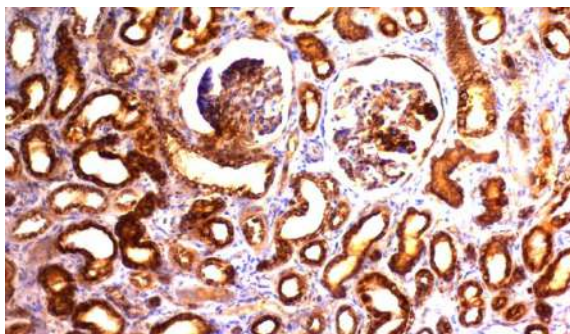
Species Reactivity: Human. Others not known.

Positive Control: Rejected Renal Transplant Tissue

Specificity: This Mab is specific to Complement 4d (C4d) and it reacts with the secreted as well as cell-bound C4d.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0025-C.1	0.1 ml
RA0025-C.5	0.5 ml

**CPS1 / Carbamoyl-Phosphate Synthetase (Hepatic Mitochondrial Marker); Clone CPS1/1022 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CPS1 protein

Clone: CPS1/1022

Isotype: IgG1

Species Reactivity: Human and Dog. Others not known.

Positive Control: HeLa cells. Liver or Hepatocellular Carcinoma (HCC).

Specificity: This antibody recognizes a protein of 165kDa, identified as carbamoyl phosphate synthetase 1 (CPS1).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0434-C.1	0.1 ml
RA0434-C.5	0.5 ml
RA0434-C.1	1 ml

Creatine Kinase-BB (CK-BB); Clone 2ba6 (Concentrate)

Species: Mouse.

Immunogen: Human CKBB protein.

Clone: 2ba6

Isotype: IgG1, kappa.

Species Reactivity: Reacts with human. Predicted to react with chimpanzee, rhesus monkey, dog, cow, mouse, rat, chicken, zebrafish, and frog. Others not tested.

Positive Control: Cerebellum.

Specificity: This monoclonal antibody recognizes the CKBB isoenzyme and does not react with the B subunit in CKMB. It shows minimal reactivity with other human serum proteins.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0519-C.1	0.1 ml
RA0519-C.5	0.5 ml
RA0519-C.1	1 ml

Cyclin B1 (G2- & M-phase Cyclin); Clone CCNB1/1098 (Concentrate)

Species: Mouse

Immunogen: Recombinant human CCNB1 protein

Clone: CCNB1/1098

Isotype: IgG1, kappa

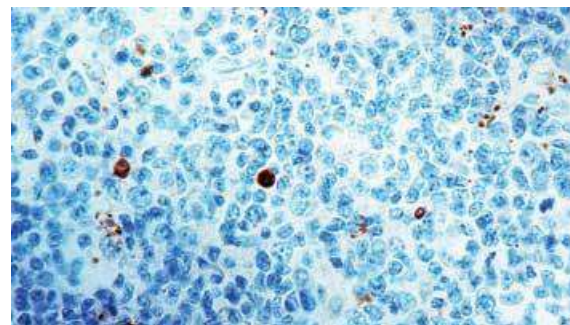
Species Reactivity: Human and Mouse. Others not known.

Positive Control: Any human cell line in logarithmic growth phase, tonsil, or testis.

Specificity: This antibody recognizes a protein of 55-62kDa, identified as cyclin B1.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0429-C.5	0.5 ml



Cyclin D1 (G1-Cyclin & Mantle Cell Marker); Clone CCND1/809 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CCND1 protein
 Clone: CCND1/809
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: T47D, ZR75, BT474, SKBR3, MCF-7, MDA-MB-453, HT29, Ramos, Jurkat or A431 cells. ~60% of mantle cell lymphomas and ~40% of breast carcinomas are positive.
 Specificity: This antibody recognizes a protein of 36kDa, identified as cyclin D1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0426-C.1	0.1 ml
RA0426-C.5	0.5 ml
RA0426-C1	1 ml

Cyclin D1 (G1-Cyclin & Mantle Cell Marker); Clone DCS-6 (Concentrate)

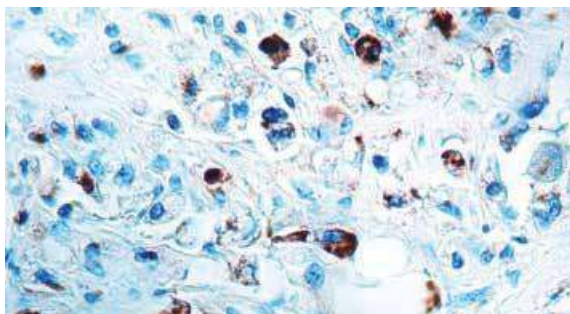
Species: Mouse
 Immunogen: Human recombinant full length Cyclin D1 protein
 Clone: DCS-6
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Monkey, Mouse and Rat. Others not known.
 Positive Control: T47D, ZR75, BT474, SKBR3, MCF-7, MDA-MB-453, HT29, Ramos, Jurkat or A431 cells. Mantle cell lymphoma or breast carcinoma. ~60% of mantle cell lymphomas and ~40% of breast carcinomas are positive.
 Specificity: Recognizes a protein of 36kDa, identified as Cyclin D1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0014-C.1	0.1 ml
RA0014-C.5	0.5 ml

Cytochrome c (Mitochondrial Marker); Clone 7H8.2C12 (Concentrate)

Species: Mouse
 Immunogen: Synthetic peptides corresponding to amino acids 1-80, 81-104 and 66-104 of pigeon cytochrome c.
 Clone: 7H8.2C12
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, and Drosophila. Others not known.
 Positive Control: K-562, HL-60, Jurkat, NIH3T3, or PC-3 cells. Cardiac muscle.
 Specificity: This antibody recognizes an epitope within amino acids 93-104 of pigeon cytochrome c.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0359-C.1	0.1 ml
RA0359-C.5	0.5 ml

**Cytochrome c (Mitochondrial Marker); Clone CTC05 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant cytochrome c protein
 Clone: CTC05
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, and Drosophila. Others not known.
 Positive Control: K-562, HL-60, Jurkat, NIH3T3, or PC-3 cells. Cardiac muscle.
 Specificity: Recognizes cytochrome c in a wide range of species, from Drosophila to human.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0360-C.1	0.1 ml
RA0360-C.5	0.5 ml

Cytokeratin 10 (Suprabasal Epithelial Marker); Clone AE20 (Concentrate)

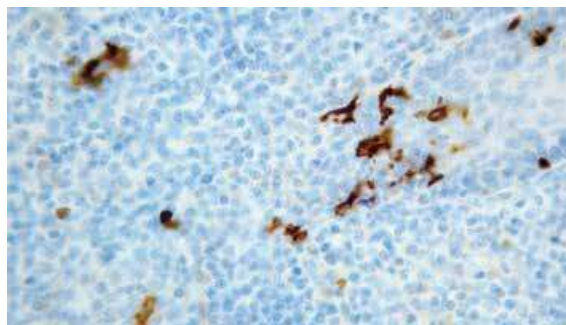
Species: Mouse
 Immunogen: Human cytokeratin 10
 Clone: AE20
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: A431, HeLa, MCF7 cells or Esophagus.
 Specificity: This antibody recognizes a protein of 56.5kDa, identified as cytokeratin 10 (CK10).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0179-C.1	0.1 ml
RA0179-C.5	0.5 ml

Cytokeratin 10 (Suprabasal Epithelial Marker); Clone DE-K10 (Concentrate)

Species: Mouse
 Immunogen: Cytoskeletal preparation extracted from human ectocervical epithelium.
 Clone: DE-K10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Dog and Cat. Others not known.
 Positive Control: Esophagus or Tonsil. A431, HeLa, MCF7 cells.
 Specificity: This antibody recognizes a protein of 56.5kDa identified as Cytokeratin 10.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0460-C.1	0.1 ml
RA0460-C.5	0.5 ml
RA0460-C1	1 ml



**Cytokeratin 10 (Suprabasal Epithelial Marker);
Clone KRT10/844 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human KRT10 protein
 Clone: KRT10/844
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: A431, HeLa, MCF7 cells or Esophagus.
 Specificity: This antibody recognizes a protein of 56.5kDa, identified as cytokeratin 10 (CK10).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0180-C.1	0.1 ml
RA0180-C.5	0.5 ml

**Cytokeratin 14 (KRT14) (Squamous Cell Marker);
Clone LL002 (Concentrate)**

Species: Mouse
 Immunogen: A synthetic peptide of 15 amino acids from the C-terminus of human keratin 14.
 Clone: LL002
 Isotype: IgG3
 Species Reactivity: Human, Mouse, and Rat. Others not known.
 Positive Control: A431 cells. Skin or Squamous cell carcinoma.
 Specificity: Anti-CK14 is useful in differentiating squamous cell carcinomas from poorly differentiated epithelial tumors. Anti-CK14 is one of the specific basal markers for distinguishing between basal and non-basal subtypes of breast carcinomas. Anti-CK14 is also a good marker for differentiation of intraductal from invasive salivary duct carcinoma by the positive staining of basal cells surrounding the in-situ neoplasm as well as for the differentiation of benign prostate from prostate carcinoma. Furthermore, this antibody has been useful in separating oncocytic tumors of the kidney from its renal mimics, and in identifying metaplastic carcinomas of the breast.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0181-C.1	0.1 ml
RA0181-C.5	0.5 ml

**Cytokeratin 17 (KRT17) (Basal Epithelial Marker);
Clone E3 (Ks17.E3) (Concentrate)**

Species: Mouse
 Immunogen: The cytoskeletal fraction of rat colon epithelium
 Clone: E3 (Ks17.E3)
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Rat, Cow, Goat and Pig. Others not known.
 Positive Control: T24 cells or skin.
 Specificity: This antibody to CK17 is an excellent tool to distinguish myoepithelial cells from luminal epithelium of various glands such as mammary, sweat and salivary. CK17 is expressed in epithelial cells of various origins, such as bronchial epithelial cells and skin appendages. It may be considered as an "epithelial stem cell" marker because the CK17 antibody marks basal cell differentiation.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0182-C.1	0.1 ml
RA0182-C.5	0.5 ml

**Cytokeratin 17 (KRT17) (Basal Epithelial Marker);
Clone KRT17/778 (Concentrate)**

Species: Mouse
 Immunogen: The cytoskeletal fraction of rat colon epithelium
 Clone: KRT17/778
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Rat, Cow, Goat and Pig. Others not known.
 Positive Control: T24 cells or skin.
 Specificity: This antibody to CK17 is an excellent tool to distinguish myoepithelial cells from luminal epithelium of various glands such as mammary, sweat and salivary. CK17 is expressed in epithelial cells of various origins, such as bronchial epithelial cells and skin appendages. It may be considered as an "epithelial stem cell" marker because the CK17 antibody marks basal cell differentiation.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0183-C.1	0.1 ml
RA0183-C.5	0.5 ml

Cytokeratin 18 (KRT18); Clone DA7 (Concentrate)

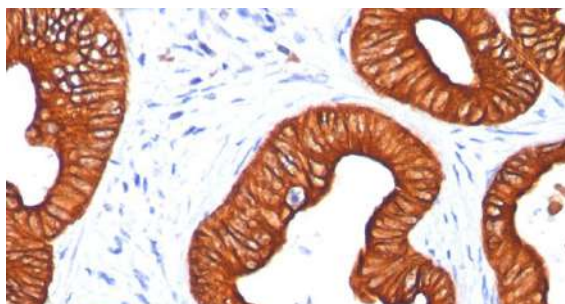
Species: Mouse
 Immunogen: Human breast cancer PMC 42 cells
 Clone: DA7
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.
 Positive Control: MCF-7, HeLa cells, or Breast Cancer.
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0185-C.1	0.1 ml
RA0185-C.5	0.5 ml

Cytokeratin 18 (KRT18); Clone DC10 (Concentrate)

Species: Mouse
 Immunogen: Human breast cancer PMC 42 cells
 Clone: DC10
 Isotype: IgG1
 Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.
 Positive Control: MCF-7, HeLa, A431 cells or Breast Cancer.
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0184-C.1	0.1 ml
RA0184-C.5	0.5 ml



Cytokeratin 18 (KRT18); Clone DE-K18 (Concentrate)

Species: Mouse
 Immunogen: Cytoskeletal preparation extracted from the human vulvar squamous carcinoma cell line A431
 Clone: DE-K18
 Isotype: IgG1, kappa
 Species Reactivity: Human, Dog and Cat. Others not known.
 Positive Control: MCF-7, HeLa cells, or Breast Cancer.
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.
 Status: RUO

Catalog Number	Volume
RA0186-C.1	0.1 ml
RA0186-C.5	0.5 ml

Cytokeratin 18 (KRT18); Clone KRT18/834 (Concentrate)

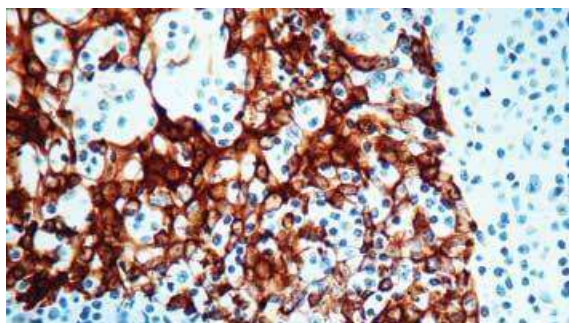
Species: Mouse
 Immunogen: Recombinant human KRT18 protein
 Clone: KRT18/834
 Isotype: IgG1
 Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.
 Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.
 Status: RUO

Catalog Number	Volume
RA0187-C.1	0.1 ml
RA0187-C.5	0.5 ml

Cytokeratin 18 (KRT18); Clone KRT18/835 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT18 protein
 Clone: KRT18/835
 Isotype: IgG1
 Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.
 Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.
 Status: RUO

Catalog Number	Volume
RA0188-C.1	0.1 ml
RA0188-C.5	0.5 ml

**Cytokeratin 18 (KRT18); Clone KRT18/836 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human KRT18 protein
 Clone: KRT18/836
 Isotype: IgG1
 Species Reactivity: Human, Dog, and Cat. Others not known.
 Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.
 Status: RUO

Catalog Number	Volume
RA0189-C.1	0.1 ml
RA0189-C.5	0.5 ml

Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone A53-B/A2.26 & BA17 (Concentrate)

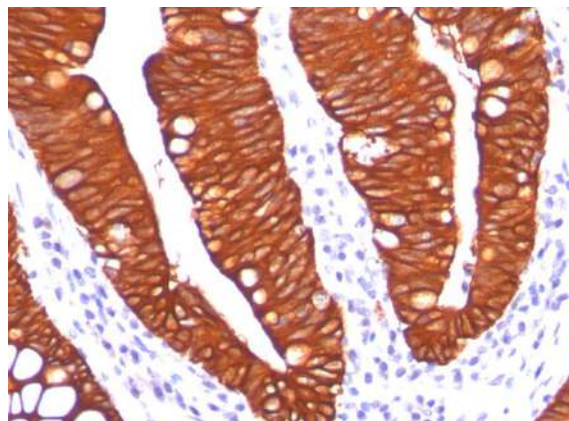
Species: Mouse
 Immunogen: Human breast cancer MCF-7 cells (A53-B/A2); Human mammary epithelial organoids (BA17)
 Clone: A53-B/A2.26 & BA17
 Isotype: IgG2a, kappa (A53-B/A2); IgG1, kappa (BA17)
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.
 Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa.
 Status: RUO

Catalog Number	Volume
RA0192-C.1	0.1 ml
RA0192-C.5	0.5 ml

Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone A53-B/A2.26 (Ks19.1) (Concentrate)

Species: Mouse
 Immunogen: Human breast cancer MCF-7 cells
 Clone: A53-B/A2.26 (Ks19.1)
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.
 Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa. Its epitope maps between amino acids 312-335.
 Status: RUO

Catalog Number	Volume
RA0190-C.1	0.1 ml
RA0190-C.5	0.5 ml



Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone BA17 (Concentrate)

Species: Mouse
 Immunogen: Human mammary epithelial organoids.
 Clone: BA17
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: MCF-7, HeLa cells, breast cancer.
 Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0191-C.1	0.1 ml
RA0191-C.5	0.5 ml

Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone KRT19/799 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT19 protein
 Clone: KRT19/799
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.
 Specificity: This antibody reacts with human cytokeratin-19 (CK19), a polypeptide of 40kDa.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0193-C.1	0.1 ml
RA0193-C.5	0.5 ml

Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone KRT19/800 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT19 protein
 Clone: KRT19/800
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: MCF-7, HeLa cells, breast cancer.
 Specificity: This antibody reacts with cytokeratin-19 (CK19), a polypeptide of 40kDa.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0194-C.1	0.1 ml
RA0194-C.5	0.5 ml

Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone K72.7 (Concentrate)

Species: Mouse
 Immunogen: Semi-purified cytokeratin preparation.
 Clone: K72.7
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0170-C.1	0.1 ml
RA0170-C.5	0.5 ml

Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone KRT7/760 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT7 protein
 Clone: KRT7/760
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0171-C.1	0.1 ml
RA0171-C.5	0.5 ml

Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone OV-TL12/30 & K72.7 (Concentrate)

Species: Mouse
 Immunogen: OTN 11, ovarian carcinoma cell line (OV-TL12/30); Semi-purified cytokeratin preparation (K72.7)
 Clone: OV-TL12/30 & K72.7
 Isotype: IgG1 (OV-TL12/30 & K72.7)
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0172-C.1	0.1 ml
RA0172-C.5	0.5 ml

Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone OV-TL12/30 (Concentrate)

Species: Mouse
 Immunogen: OTN 11, ovarian carcinoma cell line
 Clone: OV-TL12/30
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0169-C.1	0.1 ml
RA0169-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone 34BH11 (Concentrate)

Species: Mouse

Immunogen: Cytoskeletal extract of a human hepatocellular carcinoma cell line (Hep3B)

Clone: 34BH11

Isotype: IgM, kappa

Species Reactivity: Human, Monkey, and Rabbit. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0178-C.1	0.1 ml
RA0178-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone H1 & TS1 (Concentrate)

Species: Mouse

Immunogen: Cytoskeleton preparation containing cytokeratin 8 (H1); Keratin preparation from a human carcinoma (TS1).

Clone: H1 & TS1

Isotype: IgG1 (H1); IgG1 (TS1).

Species Reactivity: Human, Rat and Zebrafish. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0176-C.1	0.1 ml
RA0176-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone H1 (Concentrate)

Species: Mouse

Immunogen: Cytoskeleton preparation containing cytokeratin 8

Clone: H1

Isotype: IgG1

Species Reactivity: Human, Rat, Zebrafish. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0173-C.1	0.1 ml
RA0173-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone K8/383 (Concentrate)

Species: Mouse

Immunogen: Recombinant human cytokeratin 8 protein

Clone: K8/383

Isotype: IgG1

Species Reactivity: Human, Rat, Zebrafish. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0174-C.1	0.1 ml
RA0174-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone KRT8/818 (Concentrate)

Species: Mouse

Immunogen: Recombinant human KRT8 protein

Clone: KRT8/818

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0177-C.1	0.1 ml
RA0177-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone TS1 (Concentrate)

Species: Mouse

Immunogen: Keratin preparation from a human carcinoma

Clone: TS1

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Rat. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: The epitope of this antibody is located between aa 343-357. Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0175-C.1	0.1 ml
RA0175-C.5	0.5 ml

Cytokeratin 8/18 (Epithelial Marker); Clone C-43 & DC10 (Concentrate)

Species: Mouse

Immunogen: Cytoskeletal preparation from HeLa epithelioid carcinoma cells (C-43) and PMC-42 breast carcinoma cells of human origin (DC10)

Clone: C-43 & DC10

Isotype: IgG1, kappa (C-43); IgG1, kappa (DC10)

Species Reactivity: Human. Others not known.

Positive Control: MCF-7, HeLa, PMC-42, or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: This antibody cocktail recognizes all simple epithelia including glandular epithelium, for example, thyroid, female breast, gastrointestinal tract, respiratory tract, and urogenital tract including transitional epithelium. All adenocarcinomas and most squamous carcinomas are positive, but keratinizing squamous carcinomas are usually negative.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0388-C.1	0.1 ml
RA0388-C.5	0.5 ml

Cytokeratin 8/18 (Epithelial Marker); Clone K8.8 & DC10 (Concentrate)

Species: Mouse

Immunogen: Keratin preparation from a human carcinoma (K8.8); PMC-42 human breast carcinoma cells (DC10)

Clone: K8.8 & DC10

Isotype: IgG1, kappa (K8.8); IgG1, kappa (DC10)

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, Colon, lung or breast carcinoma.

Specificity: This antibody cocktail recognizes all simple epithelia including glandular epithelium, for example, thyroid, female

breast, gastrointestinal tract, respiratory tract, and urogenital tract including transitional epithelium. All adenocarcinomas and most squamous carcinomas are positive, but keratinizing squamous carcinomas are usually negative.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0387-C.1	0.1 ml
RA0387-C.5	0.5 ml

Cytokeratin 8; Clone KRT8/899 (Concentrate)

Species: Mouse

Immunogen: Cytoskeletal extract of Hep3B hepatocellular carcinoma cell line of human origin

Clone: KRT8/899

Isotype: IgM, kappa

Species Reactivity: Human, Monkey and Rabbit. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, Colon, lung or breast carcinoma.

Specificity: This antibody recognizes a 52.5kDa protein known as Cytokeratin 8. Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0441-C.1	0.1 ml
RA0441-C.5	0.5 ml
RA0441-C1	1 ml

Cytokeratin, Acidic (Type I or LMW) (Epithelial Marker); Clone AE-1 (Concentrate)

Species: Mouse

Immunogen: Human epidermal keratin

Clone: AE-1

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken, Turtle. Others not known.

Positive Control: Skin, Squamous cell carcinoma (SCC).

Specificity: This antibody recognizes the 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19) keratins of the acidic (Type I or LMW) subfamily.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0385-C.1	0.1 ml
RA0385-C.5	0.5 ml

Cytokeratin, Acidic (Type I or LMW) (Epithelial Marker); Clone KRTL (Concentrate)

Species: Mouse

Immunogen: Keratin preparation from a human carcinoma

Clone: KRTL

Isotype: IgG1, kappa

Species Reactivity: Human. Shows broad species reactivity.

Positive Control: Skin, Squamous cell carcinoma (SCC).

Specificity: This antibody recognizes the 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19) keratins of the acidic (Type I or LMW) subfamily.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0389-C.1	0.1 ml
RA0389-C.5	0.5 ml

Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone 34BE12 (Concentrate)

Species: Mouse

Immunogen: Solubilized keratin extract from human stratum corneum

Clone: 34BE12

Isotype: IgG1, kappa

Species Reactivity: Human, Mouse, and Rat. Others not known.

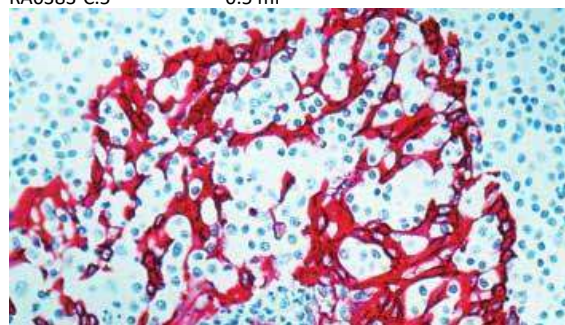
Positive Control: PC12 cells, skin, prostate carcinoma.

Specificity: This antibody recognizes CK1, CK5, CK10, and CK14.

In normal epithelia, it stains stratified epithelia, myoepithelial cells, and basal cells in the prostate gland and bronchi. This antibody shows no reactivity with hepatocytes, pancreatic acinar cells, proximal renal tubules, or endometrial glands; there is no reactivity with cells derived from simple epithelia. Mesenchymal tumors, lymphomas, melanomas, neural tumors, and neuroendocrine tumors are negative with this antibody.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0383-C.1	0.1 ml
RA0383-C.5	0.5 ml



Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone AE-3 (Concentrate)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-3
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Epithelial cells, skin or adenocarcinomas.
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0386-C.1	0.1 ml
RA0386-C.5	0.5 ml

Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone KRTH (Concentrate)

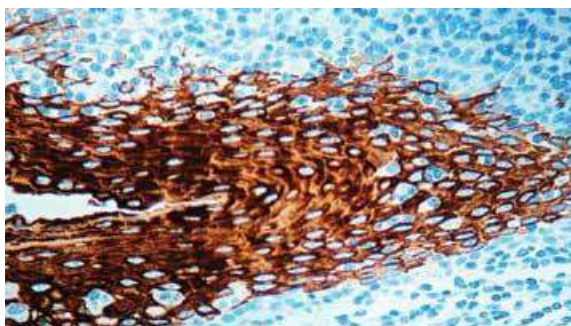
Species: Mouse
 Immunogen: Keratin preparation from a human carcinoma
 Clone: KRTH
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows broad species reactivity.
 Positive Control: Skin, Adenocarcinomas.
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0390-C.1	0.1 ml
RA0390-C.5	0.5 ml

Cytokeratin, Multi (Epithelial Marker); Clone C11 (Concentrate)

Species: Mouse
 Immunogen: Keratin-enriched preparation from cultured human A431
 Clone: C11
 Isotype: IgG1
 Species Reactivity: Human, Cow, Rat, Mouse, Guinea pig, Frog, Goat, Marmoset, and Pig. Others not known.
 Positive Control: A431 cells, skin, colon carcinoma.
 Specificity: This antibody recognizes cytokeratins 4, 5, 6, 8, 10, 13, and 18.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0381-C.1	0.1 ml
RA0381-C.5	0.5 ml

**Cytokeratin, Pan (Epithelial Marker); Clone AE-1 & AE-3 (Concentrate)**

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-1 & AE-3
 Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Skin, Adeno- or Squamous carcinomas.
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0382-C.1	0.1 ml
RA0382-C.5	0.5 ml

Cytokeratin, Pan (Epithelial Marker); Clone KRTL & KRTH (Concentrate)

Species: Mouse
 Immunogen: Keratin preparation from a human carcinoma
 Clone: KRTL & KRTH
 Isotype: IgG1, kappa (KRTL); IgG1, kappa (KRTH)
 Species Reactivity: Human. Shows broad species reactivity.
 Positive Control: Skin, Adeno- or Squamous carcinomas.
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include CK1, CK3, CK4, CK5, CK6, CK8, CK10, CK14, CK15, CK16, and CK19. This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0391-C.1	0.1 ml
RA0391-C.5	0.5 ml
RA0391-C1	1 ml

Cytokeratin, pan (Epithelial Marker); Clone PAN-CK (Concentrate)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: PAN-CK
 Isotype: IgG's, kappa
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Skin, Adeno- or Squamous carcinomas
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, with 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 55kDa (CK7); 52kDa (CK8); 56.5kDa (CK10); 53kDa (CK13); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 46kDa (CK17); 45kDa (CK18) and 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and shows high sensitivity in the recognition of epithelial cells and carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0430-C.5	0.5 ml

Desmin (Muscle Cell Marker); Clone D33 (Concentrate)

Species: Mouse
 Immunogen: Proteins from human Leiomyoma.
 Clone: D33
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat, Mouse, Hamster, Chicken.
 Others not known.
 Positive Control: Muscle, Uterus, Leiomyosarcoma or SJRH30 cells.
 Specificity: Desmin, Clone D33 detects cells of normal smooth, skeletal, and cardiac muscles. This antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0459-C.1	0.1 ml
RA0459-C.5	0.5 ml
RA0459-C1	1 ml

DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DG1/447 & DOG-1.1 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human DOG-1 protein (DG1/447); A synthetic peptide from human DOG-1 protein (MSDFVDWVVPDIPKDISQIHKELVLMVELFMREEQDKQLLETCEK ERQKDEPPCNHNTKACPSLGSPPASHAYHGGVL), conjugated to a carrier protein (DOG-1.1).
 Clone: DG1/447 & DOG-1.1
 Isotype: IgG1, kappa (DG1/447 & DOG-1.1)
 Species Reactivity: Human. Others not known.
 Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.
 Specificity: This monoclonal antibody recognizes Human DOG1. It is a sensitive and specific immunohistochemical marker for GIST, comparable with c-Kit, with the additional benefit of detecting c-Kit-negative GISTs. It is also a sensitive marker for unusual GIST subgroups lacking c-Kit or PDGFRA mutations.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0364-C.1	0.1 ml
RA0364-C.5	0.5 ml

DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DG1/447 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human DOG-1 protein
 Clone: DG1/447
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.
 Specificity: This monoclonal antibody recognizes Human DOG1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0362-C.1	0.1 ml
RA0362-C.5	0.5 ml

DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DOG-1.1 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide from human DOG-1 protein (MSDFVDWVVPDIPKDISQIHKELVLMVELFMREEQDKQLLETCEK ERQKDEPPCNHNTKACPSLGSPPASHAYHGGVL), conjugated to a carrier protein.
 Clone: DOG-1.1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.
 Specificity: DOG1.1 is a sensitive and specific immunohistochemical marker for GIST, comparable with c-Kit, with the additional benefit of detecting c-Kit-negative GISTs. DOG1.1 is also a sensitive marker for unusual GIST subgroups lacking c-Kit or PDGFRA mutations.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0363-C.1	0.1 ml
RA0363-C.5	0.5 ml

Double Stranded DNA (dsDNA) (Nuclear Marker); Clone 121-3 (Concentrate)

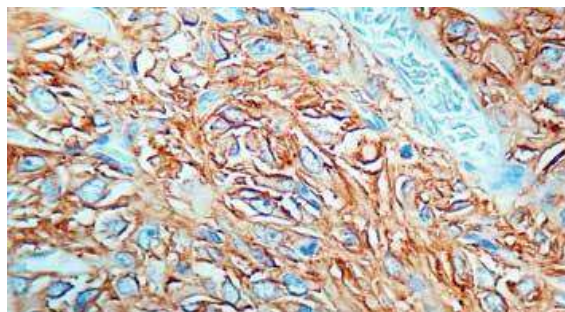
Species: Mouse
 Immunogen: Nuclei of Raji Burkitt's cells
 Clone: 121-3
 Isotype: IgG3, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil
 Specificity: This antibody recognizes the double stranded DNA in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in human cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0417-C.1	0.1 ml
RA0417-C.5	0.5 ml

Double Stranded DNA (dsDNA) (Nuclear Marker); Clone AE-2 (Concentrate)

Species: Mouse
 Immunogen: Nuclei of Raji Burkitt's cells
 Clone: AE-2
 Isotype: IgG3, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil
 Specificity: This antibody recognizes the double stranded DNA in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in human cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0418-C.1	0.1 ml
RA0418-C.5	0.5 ml



EGFR (Epidermal Growth Factor Receptor); Clone GFR450 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human EGFR protein
 Clone: GFR450
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A431 cells. Breast or bladder cancer.
 Specificity: This antibody recognizes a protein of 170kDa, identified as EGFR.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0107-C.1	0.1 ml
RA0107-C.5	0.5 ml

Ep-CAM / CD326 (Epithelial Marker); Clone EGP40/826 (Concentrate)

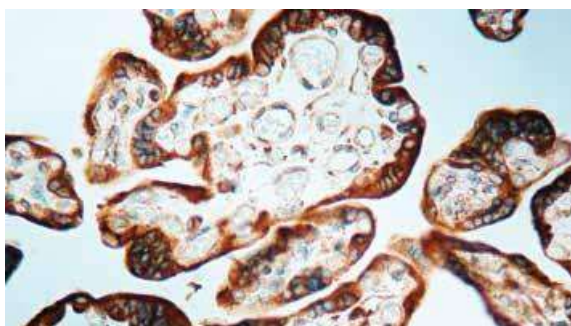
Species: Mouse
 Immunogen: Recombinant human TACSTD1 protein
 Clone: EGP40/826
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HT29 cells or breast tumor.
 Specificity: Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0199-C.1	0.1 ml
RA0199-C.5	0.5 ml

Ep-CAM / CD326 (Epithelial Marker); Clone EGP40/837 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TACSTD1 protein
 Clone: EGP40/837
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HT29 cells or breast tumor.
 Specificity: This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0200-C.1	0.1 ml
RA0200-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone HEA125 (Concentrate)**

Species: Mouse
 Immunogen: Human colon cancer HT29 cells
 Clone: HEA125
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HT29 cells or breast tumor.
 Specificity: Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). In immunoprecipitation experiments, the Ber-EP4 antibody blocks the reaction of the HEA125 antibody with MCF-7 cell lysate and vice versa, showing that the two antibodies react with the same antigen. The two antibodies also produce identical staining results in cells and tissues. Of the 37 cell lines tested, the antibody homogeneously labels all (10/10) carcinoma cell lines, whereas all non-epithelial cell lines (26/27) are negative except for the erythromyeloid cell line K562.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0198-C.1	0.1 ml
RA0198-C.5	0.5 ml

Ep-CAM / CD326 (Epithelial Marker); Clone MOC-31 (Concentrate)

Species: Mouse
 Immunogen: Neuraminidase treated GLS-1 human small cell lung carcinoma cells
 Clone: MOC-31
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: HT29 cells or breast tumor.
 Specificity: The epitope of this antibody is located in the first EGF-like repeat domain (EGF1) between amino acids 27-59 of Ep-CAM. This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0196-C.1	0.1 ml
RA0196-C.5	0.5 ml

Ep-CAM / CD326 (Epithelial Marker); Clone VU-1D9 (Concentrate)

Species: Mouse
 Immunogen: Small cell lung carcinoma cells
 Clone: VU-1D9
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: HT29 cells or breast tumor.
 Specificity: This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0195-C.1	0.1 ml
RA0195-C.5	0.5 ml

ER beta-1 (Estrogen Receptor beta-1); Clone ERb455 (Concentrate)

Species: Mouse
 Immunogen: C-terminus fragment of recombinant human estrogen receptor beta protein
 Clone: ERb455
 Isotype: IgG2a
 Species Reactivity: Human, Monkey, Mouse, Rat, Pig, Horse and Sheep. Others not known.
 Positive Control: Ovarian, breast or prostate carcinoma.
 Specificity: Nuclear positivity in estrogen receptor beta positive tumors.
 Status: RUO

Catalog Number	Volume
RA0111-C.1	0.1 ml
RA0111-C.5	0.5 ml

Erythropoietin (EPO); Clone EPO/1367 (Concentrate)

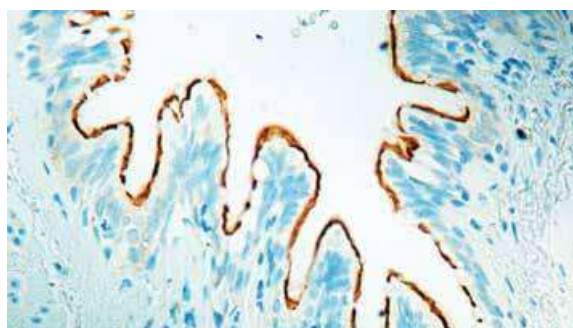
Species: Mouse
 Immunogen: Recombinant fragment of human EPO protein (aa28-162) (exact sequence is proprietary).
 Clone: EPO/1367
 Isotype: IgG
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: HepG2 Cells. Heart or Kidney.
 Specificity: Recognizes a protein of about 37kDa, which is identified as Erythropoietin (EPO).
 Status: RUO

Catalog Number	Volume
RA0436-C.1	0.1 ml
RA0436-C.5	0.5 ml
RA0436-C1	1 ml

Erythropoietin (EPO); Clone EPO/1368 (Concentrate)

Species: Mouse
 Immunogen: Recombinant fragment of human EPO protein (aa28-162) (exact sequence is proprietary).
 Clone: EPO/1368
 Isotype: IgG
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: HepG2 Cells. Heart or Kidney.
 Specificity: Recognizes a protein of about 37kDa, which is identified as Erythropoietin (EPO).
 Status: RUO

Catalog Number	Volume
RA0445-C.1	0.1 ml
RA0445-C.5	0.5 ml
RA0445-C1	1 ml

**Estrogen Receptor (Marker of Estrogen Dependence); Clone ER505 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human Estrogen Receptor alpha protein (aa 2-185)
 Clone: ER505
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7 cells or breast cancers.
 Specificity: This antibody is specific to ER alpha and shows minimal cross-reaction with other members of the family.
 Status: RUO

Catalog Number	Volume
RA0110-C.1	0.1 ml
RA0110-C.5	0.5 ml

Fascin-1 (Reed-Sternberg Cell Marker); Clone FSCN1/417 (Concentrate)

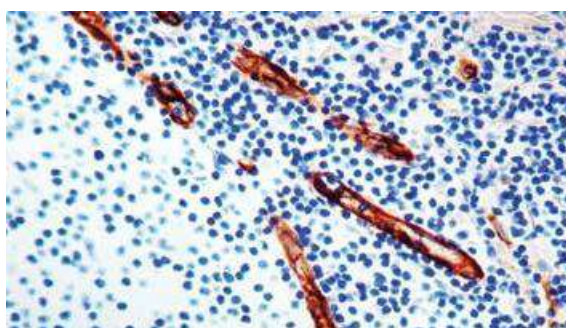
Species: Mouse
 Immunogen: Full length recombinant human FSCN1 protein
 Clone: FSCN1/417
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa, MCF-7, PC-3 or BEWO cells. Hodgkin's lymphoma, Ovarian, or Testicular Carcinoma.
 Specificity: This antibody recognizes a protein of 55kDa, which is identified as fascin-1.
 Status: RUO

Catalog Number	Volume
RA0450-C.1	0.1 ml
RA0450-C.5	0.5 ml
RA0450-C1	1 ml

Fascin-1; Clone FSCN1/417 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human fascin protein
 Clone: FSCN1/417
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa cells. Thymus, spleen or Hodgkin's lymphoma.
 Specificity: Recognizes a protein of 55kDa, which is identified as fascin-1. This antibody to fascin-1 is a very sensitive marker for Reed-Sternberg cells and variants in nodular sclerosis, mixed cellularity, and lymphocyte depletion Hodgkin disease. It is uniformly negative in lymphoid cells, plasma cells, and myeloid cells.
 Status: RUO

Catalog Number	Volume
RA0296-C.1	0.1 ml
RA0296-C.5	0.5 ml



FSH-beta (Follicle Stimulating Hormone-beta); Clone FSHb/1062 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hFSH beta subunit
 Clone: FSHb/1062
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Anterior Pituitary
 Specificity: This antibody reacts with a protein of 22kDa, identified as the beta subunit of Follicle Stimulating Hormone (FSH). It does not cross react with the alpha subunit.
 Status: RUO

Catalog Number	Volume
RA0435-C.1	0.1 ml
RA0435-C.5	0.5 ml
RA0435-C1	1 ml

GFAP (Astrocyte & Neural Stem Cell Marker); Clone ASTRO/789 (Concentrate)

Species: Mouse
 Immunogen: Recombinant GFAP protein
 Clone: ASTRO/789
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.
 Positive Control: Brain or Astrocytoma.
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.
 Status: RUO

Catalog Number	Volume
RA0122-C.1	0.1 ml
RA0122-C.5	0.5 ml

GFAP (Astrocyte & Neural Stem Cell Marker); Clone GA-5 & ASTRO/789 (Concentrate)

Species: Mouse
 Immunogen: GFAP isolated from pig spinal cord (GA-5); Recombinant GFAP protein (ASTRO/789)
 Clone: GA-5 & ASTRO/789
 Isotype: IgG1 (GA-5); IgG1 (ASTRO/789)
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, Chicken. Others not known.
 Positive Control: Brain or Astrocytoma.
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.
 Status: RUO

Catalog Number	Volume
RA0123-C.1	0.1 ml
RA0123-C.5	0.5 ml



GFAP (Astrocyte & Neural Stem Cell Marker); Clone GA-5 (Concentrate)

Species: Mouse
 Immunogen: GFAP isolated from pig spinal cord
 Clone: GA-5
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, Chicken. Others not known.
 Positive Control: Brain or Astrocytoma.
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.
 Status: RUO

Catalog Number	Volume
RA0121-C.1	0.1 ml
RA0121-C.5	0.5 ml

Glycophorin A / CD235a (Erythrocyte Marker); Clone GYPA/280 (Concentrate)

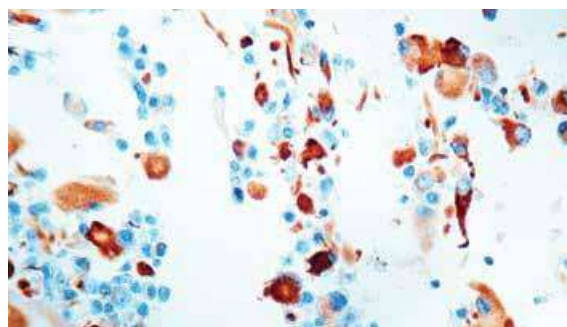
Species: Mouse
 Immunogen: Recombinant human glycophorin A protein
 Clone: GYPA/280
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Erythrocytes
 Status: RUO

Catalog Number	Volume
RA0438-C.1	0.1 ml
RA0438-C.5	0.5 ml
RA0438-C1	1 ml

Glypican-3 (GPC3) (Marker of Hepatocellular Carcinoma); Clone 1G12 & GPC3/863 (Concentrate)

Species: Mouse
 Immunogen: Recombinant fragment containing amino acids 511-580 of human glypican-3 (1G12); Recombinant human GPC3 protein (GPC3/863).
 Clone: 1G12 & GPC3/863
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T cells or Hepatocellular carcinoma.
 Specificity: Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatoblastoma, melanoma, testicular germ cell tumors, and Wilm's tumor.

Catalog Number	Volume
RA0126-C.1	0.1 ml
RA0126-C.5	0.5 ml



Glypican-3 (GPC3) (Marker of Hepatocellular Carcinoma); Clone 1G12 (Concentrate)

Species: Mouse
 Immunogen: A recombinant fragment containing amino acids 511-580 of human glypican-3
 Clone: 1G12
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T cells or Hepatocellular carcinoma.
 Specificity: Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatoblastoma, melanoma, testicular germ cell tumors, and Wilm's tumor.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0124-C.1	0.1 ml
RA0124-C.5	0.5 ml

Glypican-3 (GPC3) (Marker of Hepatocellular Carcinoma); Clone GPC3/863 (Concentrate)

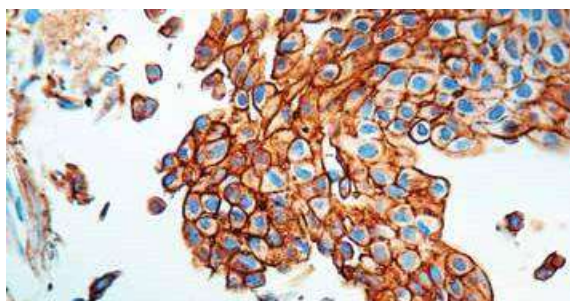
Species: Mouse
 Immunogen: Recombinant human GPC3 protein
 Clone: GPC3/863
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T cells or Hepatocellular carcinoma.
 Specificity: Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatoblastoma, melanoma, testicular germ cell tumors, and Wilm's tumor.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0125-C.1	0.1 ml
RA0125-C.5	0.5 ml

GnRH-Receptor / LH-RH Receptor; Clone A9E4 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide of aa 1-29 (MANSASPEQNQHCSAINNSIPLMQGNLPY) from the N-terminus of human GnRH receptor.
 Clone: A9E4
 Isotype: IgG1, kappa
 Species Reactivity: Human. Predicted to react with Pig and Rabbit. Others not known.
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.
 Specificity: Recognizes an epitope on the extracellular domain of gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0127-C.1	0.1 ml
RA0127-C.5	0.5 ml

**GnRH-Receptor / LH-RH Receptor; Clone F1G4 (Concentrate)**

Species: Mouse
 Immunogen: A synthetic peptide consisting of amino acids 1-29 (MANSASPEQNQHCSAINNSI PLMQGNLPY) from the N-terminus of the human GnRH receptor.
 Clone: F1G4; same as GNRH03
 Isotype: IgG1, kappa
 Species Reactivity: Human and Rat. Predicted to react with Pig and Rabbit. Others not known.
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.
 Specificity: This antibody recognizes an epitope on the extracellular domain of the gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0437-C.1	0.1 ml
RA0437-C.5	0.5 ml
RA0437-C1	1 ml

GnRH-Receptor / LH-RH Receptor; Clone HH7/768 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human GNRHR protein
 Clone: HH7/768
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.
 Specificity: Recognizes an epitope on the extracellular domain of gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0128-C.1	0.1 ml
RA0128-C.5	0.5 ml

gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone HMB45 & PMEL/783 (Concentrate)

Species: Mouse
 Immunogen: Extract of pigmented melanoma metastases from lymph nodes (HMB45); Recombinant human SILV protein (PMEL/783)
 Clone: HMB45 & PMEL/783
 Isotype: IgG1, kappa (HMB45); IgG1, kappa (PMEL/783)
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-28 cells or Melanoma.
 Specificity: By immunohistochemistry, this antibody specifically recognizes a protein in melanocytes and melanomas. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. This antibody also stains Angiomyolipoma (PEComa).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0294-C.1	0.1 ml
RA0294-C.5	0.5 ml

gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone HMB45 (Concentrate)

Species: Mouse
 Immunogen: Extract of pigmented melanoma metastases from lymph nodes
 Clone: HMB45
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Dog and Rat. Others not tested.
 Positive Control: SK-MEL-28 cells or Melanoma.
 Specificity: By immunohistochemistry, this antibody specifically recognizes a protein in melanocytes and melanomas. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. This antibody also stains Angiomyolipoma (PEComa).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0292-C.1	0.1 ml
RA0292-C.5	0.5 ml

gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone PMEL/783 (Concentrate)

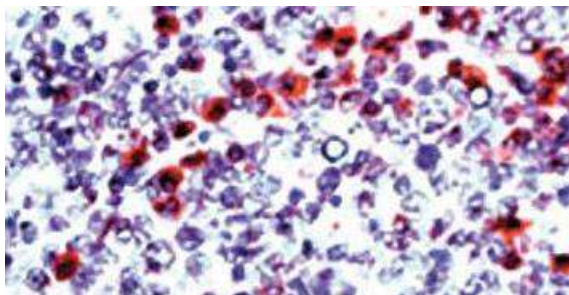
Species: Mouse
 Immunogen: Recombinant human SILV protein
 Clone: PMEL/783
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-28 cells or Melanoma.
 Specificity: gp100, also designated ME20-M, ME20-S and PMEL 17, is classified as a melanocyte differentiation antigen and is expressed at low levels in normal cell lines and tissues, but is upregulated in melanocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0293-C.1	0.1 ml
RA0293-C.5	0.5 ml

hCG Holo (Pregnancy & Choriocarcinoma Marker); Clone HCGab/52 (Concentrate)

Species: Mouse
 Immunogen: Purified hCG protein
 Clone: HCGab/52
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: JAR or TT Cells. Placenta.
 Specificity: This antibody is very specific because it reacts ONLY with intact hCG and not with either the free alpha- or free beta-chain of hCG.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0399-C.1	0.1 ml
RA0399-C.5	0.5 ml

**HCG-alpha (Pregnancy & Choriocarcinoma Marker); Clone SPM552 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant hCG alpha protein.
 Clone: SPM552
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Placenta.
 Specificity: This monoclonal antibody reacts with a protein of ~13kDa, identified as HCG-alpha, a sub-unit of HCG.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0504-C.1	0.1 ml
RA0504-C.5	0.5 ml
RA0504-C1	1 ml

hCG-alpha; Clone HCGa/53 (Concentrate)

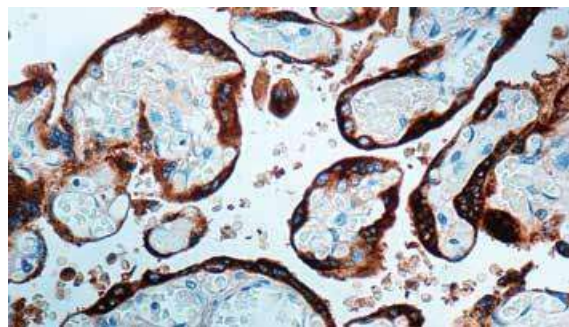
Species: Mouse
 Immunogen: Recombinant hCG alpha protein
 Clone: HCGa/53
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: JAR or TT Cells. Placenta.
 Specificity: This monoclonal antibody reacts with a protein of ~13kDa, identified as the alpha subunit of hCG.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0086-C.1	0.1 ml
RA0086-C.5	0.5 ml

HCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/211 (Concentrate)

Species: Mouse
 Immunogen: Purified human HCG-beta.
 Clone: HCGb/211
 Isotype: IgG1
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as HCG-beta, a sub-unit of HCG. It does not cross react with the alpha sub-unit.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0508-C.1	0.1 ml
RA0508-C.5	0.5 ml
RA0508-C1	1 ml



hCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/459 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hCG beta protein
 Clone: HCGb/459
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: JAR or TT Cells. Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. This hCG detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0088-C.1	0.1 ml
RA0088-C.5	0.5 ml

hCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/54 & HCGb/459 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hCG beta protein (HCGb/54 and HCGb/459)
 Clone: HCGb/54 & HCGb/459
 Isotype: IgG1, kappa (HCGb/54 and HCGb/459)
 Species Reactivity: Human. Others not known.
 Positive Control: JAR or TT Cells. Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. hCG antibody detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0089-C.1	0.1 ml
RA0089-C.5	0.5 ml

hCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/54 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hCG beta protein
 Clone: HCGb/54
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: JAR or TT Cells. Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. This hCG antibody detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0087-C.1	0.1 ml
RA0087-C.5	0.5 ml

HCG-beta (Pregnancy & Choriocarcinoma Marker); Clone SPM105 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hCG beta protein.
 Clone: SPM105
 Isotype: IgG1, kappa
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as HCG-beta, a sub-unit of HCG. It does not cross react with the HCG-alpha sub-unit.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0506-C.1	0.1 ml
RA0506-C.5	0.5 ml
RA0506-C1	1 ml

HCG-beta (Pregnancy & Choriocarcinoma Marker); Clone SPM529 (Concentrate)

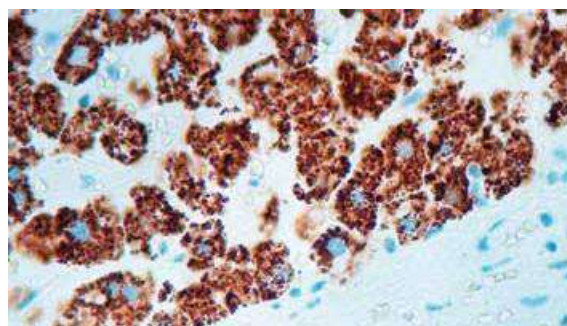
Species: Mouse
 Immunogen: Recombinant hCG beta protein.
 Clone: SPM529
 Isotype: IgG1
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as HCG-beta, a sub-unit of HCG. It does not cross react with the alpha sub-unit.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0507-C.1	0.1 ml
RA0507-C.5	0.5 ml
RA0507-C1	1 ml

Hepatocyte Specific Antigen (Hep Par 1) (Hepatocellular Marker); Clone OCH1E5 (Hep Par 1) (Concentrate)

Species: Mouse
 Immunogen: Extract of a formalin-fixed, rejected allograft of a human liver
 Clone: OCH1E5; same as Hep Par 1
 Isotype: IgG1
 Species Reactivity: Human and Dog. Others not known.
 Positive Control: Liver or Hepatocellular Carcinoma (HCC).
 Specificity: Hepatocyte Specific Antigen, also called Hepatocyte Paraffin 1 or Hep Par 1, localizes to the mitochondria of hepatocytes. It is a sensitive marker for distinguishing hepatocellular carcinomas (HCC) from other metastatic carcinomas as well as cholangio-carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0409-C.1	0.1 ml
RA0409-C.5	0.5 ml



Hepatocyte Specific Antigen (Hepatocellular Marker); Clone HSA98 (Concentrate)

Species: Mouse
 Immunogen: HEP-3B human hepatocellular carcinoma cells
 Clone: HSA98
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Liver or Hepatocellular Carcinoma (HCC).
 Specificity: Clone HSA98 binds to human hepatocytes and the majority of human hepatocellular carcinomas (HCC's). In frozen sections, it stains hepatic cells and may be used as a marker of the liver. Cell preparations of hepatocellular carcinoma biopsies or cell lines are found to bind HSA98 on the cell surface. This antibody stains liver hepatocytes in frozen human liver sections and is positive on the cell surface of human liver carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0410-C.1	0.1 ml
RA0410-C.5	0.5 ml

HER-2 / c-erbB-2 / neu / CD340; Clone HRB2/451 (Concentrate)

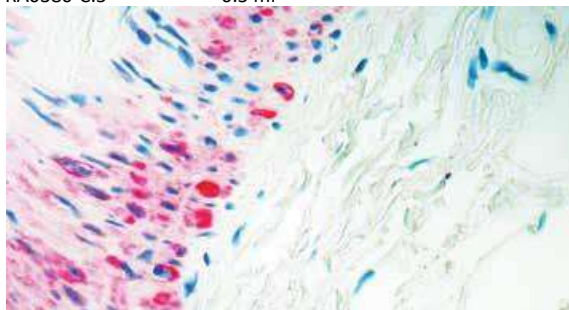
Species: Mouse
 Immunogen: Recombinant human HER-2 protein
 Clone: HRB2/451
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: SKBR-3 cells or breast cancers.
 Specificity: This antibody is specific to HER-2/c-erbB-2 and shows minimal cross-reaction with other members of the family.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0108-C.1	0.1 ml
RA0108-C.5	0.5 ml

HPV-16 (Human Papilloma Virus 16); Clone CAMVIR-1 (Concentrate)

Species: Mouse
 Immunogen: Human papilloma virus type 16, major capsid protein L1
 Clone: CAMVIR-1
 Isotype: IgG2a, kappa
 Species Reactivity: Type 16 of human Papilloma Virus (HPV-16).
 Positive Control: HPV-16 infected cells or cervical tissue.
 Specificity: Reacts with a protein of 57kDa, identified as the L1 protein of human papilloma virus type 16 (HPV-16). The antibody reacts very strongly with formalin-fixed, paraffin-embedded tissues containing HPV-16 or -33; very weak reactions were occasionally observed with biopsy specimens or smears containing HPV-6 or HPV-11. It cross-reacts with HPV37.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0380-C.1	0.1 ml
RA0380-C.5	0.5 ml

**HSP27 (Heat Shock Protein 27); Clone 24K/774 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human HSPB1 protein.
 Clone: 24K/774
 Isotype: IgG1, kappa
 Species Reactivity: Human, Chimpanzee, Monkey, Sheep, Rat, Mouse, and Chicken. Others not known.
 Positive Control: ~50% of breast carcinomas are positive for HSP27, especially those that are also positive for estrogen and/or progesterone receptor.
 Specificity: This antibody recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (HSP27).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0132-C.1	0.1 ml
RA0132-C.5	0.5 ml

HSP27 (Heat Shock Protein 27); Clone G3.1 (Concentrate)

Species: Mouse
 Immunogen: Partially purified HSP27 (earlier called 24K) protein from breast cancer MCF-7 cells.
 Clone: G3.1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Chimpanzee, Monkey, Sheep, Rat, Mouse, and Chicken. Others not known.
 Positive Control: ~50% of Breast Carcinomas are positive for HSP27, especially those that are also positive for estrogen and/or progesterone receptor.
 Specificity: This antibody recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (HSP27).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0131-C.1	0.1 ml
RA0131-C.5	0.5 ml

HSP60 (Heat Shock Protein 60); Clone HLD4/780 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human HSPD1 protein
 Clone: HLD4/780
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Hamster, Sheep, Rabbit, Cow, Dog, Pig, Monkey, Chicken, Xenopus laevis, and Drosophila. Does not react with Bacteria, Helminths, and Spinach. Others not known.
 Positive Control: HeLa or HepG2 cells. Breast carcinoma. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for HSP60.
 Specificity: Recognizes a 60kDa protein, identified as the heat shock protein 60 (HSP60).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0134-C.1	0.1 ml
RA0134-C.5	0.5 ml

HSP60 (Heat Shock Protein 60); Clone LK1 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human HSP60 protein
 Clone: LK1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Hamster, Sheep, Rabbit, Cow, Dog, Pig, Monkey, Chicken, *Xenopus laevis*, and *Drosophila*. Does not react with Bacteria, Helminths, and Spinach. Others not known.
 Positive Control: HeLa or HepG2 cells. Breast carcinoma. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for HSP60.
 Specificity: This antibody recognizes a 60kDa protein, identified as the heat shock protein 60 (HSP60). Its epitope is localized between aa 383-447 of human HSP60. Clone LK1, unlike LK2, recognizes only the mammalian (not bacterial) HSP60 and is useful in distinguishing HSP60 from mammals and bacteria.
 Status: RUO

Catalog Number	Volume
RA0133-C.1	0.1 ml
RA0133-C.5	0.5 ml

IDH1 R132H; Clone H09 (Concentrate)

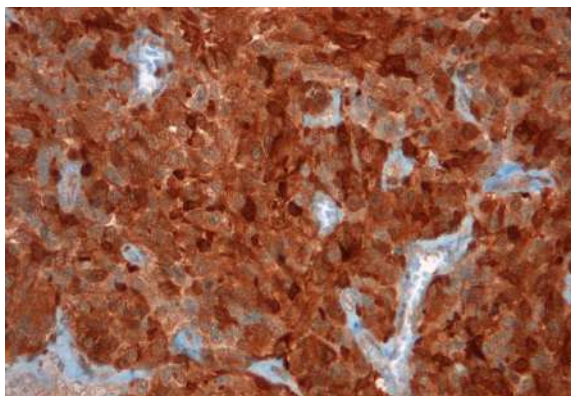
Species: Mouse
 Immunogen: Synthetic peptide, amino acid sequence CKPIIIGHHAYGD
 Clone: H09
 Isotype: IgG2a
 Species Reactivity: Human
 Positive Control: Oligodendroglioma, diffuse astrocytoma
 Specificity: Human IDH1 R132H point mutation
 Status: RUO
 Manufactured By: Dianova GmbH

Catalog Number	Volume
DIA-H09-M	0.1 ml
DIA-H09	0.5 ml

IDH1-pan (wt & mutated); Clone W09 (Concentrate)

Species: Rat
 Immunogen: Peptide sequence 4-120 of human IDH1.
 Clone: W09
 Isotype: IgG2a
 Species Reactivity: Human
 Positive Control: Oligodendroglioma, diffuse astrocytoma.
 Specificity: Human IDH1, wild type & point mutation.
 Status: RUO
 Manufactured By: Dianova GmbH

Catalog Number	Volume
DIA-W09	0.5 ml

**IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone GA01 (Concentrate)**

Species: Mouse
 Immunogen: Purified human alpha heavy chain
 Clone: GA01
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.
 Status: RUO

Catalog Number	Volume
RA0137-C.1	0.1 ml
RA0137-C.5	0.5 ml

IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone HISA3 & GA01 (Concentrate)

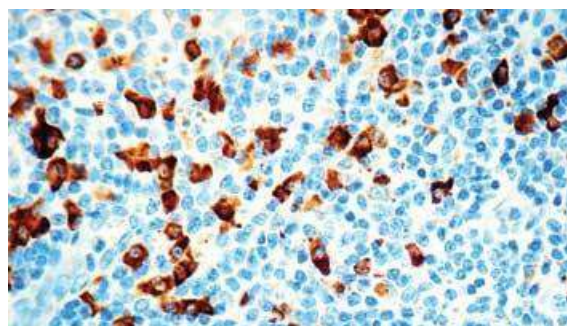
Species: Mouse
 Immunogen: Purified human IgA
 Clone: HISA3 & GA01
 Isotype: IgG1, kappa (HISA3 & GA01)
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.
 Status: RUO

Catalog Number	Volume
RA0138-C.1	0.1 ml
RA0138-C.5	0.5 ml

IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone HISA3 (Concentrate)

Species: Mouse
 Immunogen: Purified human IgA
 Clone: HISA3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.
 Status: RUO

Catalog Number	Volume
RA0136-C.1	0.1 ml
RA0136-C.5	0.5 ml



IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone B33/20 (Concentrate)

Species: Mouse
 Immunogen: Purified human Ig Gamma Chain
 Clone: B33/20
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.
 Specificity: Recognizes a protein of 75kDa, identified as gamma heavy chain of human immunoglobulins. Its epitope maps in the CH2 domain of the Fc region of IgG. It reacts with all sub-classes of gamma chain of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0142-C.1	0.1 ml
RA0142-C.5	0.5 ml

IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG217 & IG266 (Concentrate)

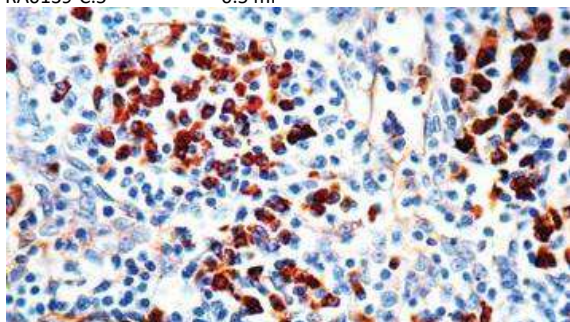
Species: Mouse
 Immunogen: Purified human Ig Gamma Chain
 Clone: IG217 & IG266
 Isotype: IgG1, kappa (IG217); IgG2a, kappa (IG266)
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This antibody is specific to heavy chain of IgG and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Gamma heavy chain (IgG1, IgG2a, IgG2b, IgG3).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0141-C.1	0.1 ml
RA0141-C.5	0.5 ml

IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG217 (Concentrate)

Species: Mouse
 Immunogen: Purified human Ig Gamma Chain
 Clone: IG217
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: Recognizes a protein of 75kDa, identified as the gamma heavy chain of human immunoglobulins. It reacts with all sub-classes of gamma chains of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0139-C.1	0.1 ml
RA0139-C.5	0.5 ml

**IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG266 (Concentrate)**

Species: Mouse
 Immunogen: Purified human Ig Gamma Chain
 Clone: IG266
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: Recognizes a protein of 75kDa, identified as the gamma heavy chain of human immunoglobulins. It reacts with all sub-classes of gamma chains of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0140-C.1	0.1 ml
RA0140-C.5	0.5 ml

IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone DA4-4 (SA-DA4 or HB57) (Concentrate)

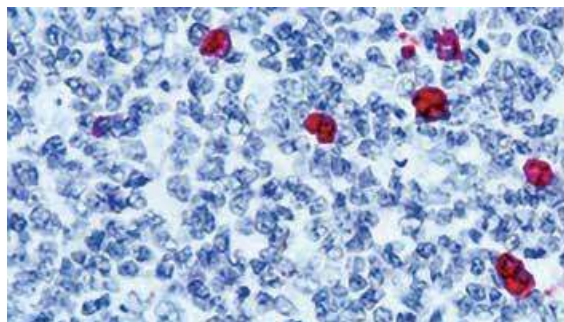
Species: Mouse
 Immunogen: Heavy chain of human IgM
 Clone: DA4-4 (SA-DA4 or HB57)
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0144-C.1	0.1 ml
RA0144-C.5	0.5 ml

IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone ICO-30 (Concentrate)

Species: Mouse
 Immunogen: Heavy chain of human IgM
 Clone: ICO-30
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0143-C.1	0.1 ml
RA0143-C.5	0.5 ml



IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 & ICO-30 (Concentrate)

Species: Mouse

Immunogen: Recombinant heavy chain of human IgM (IM260);

Heavy chain of human IgM (ICO-30)

Clone: IM260 & ICO-30

Isotype: IgG1, kappa (IM260 & ICO-30)

Species Reactivity: Human. Others not known.

Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.

Specificity: Recognizes a protein of 75kDa, identified as the mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD) heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0147-C.1	0.1 ml
RA0147-C.5	0.5 ml

IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 (Concentrate)

Species: Mouse

Immunogen: Recombinant heavy chain of human IgM

Clone: M260

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.

Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0145-C.1	0.1 ml
RA0145-C.5	0.5 ml

IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM373 (Concentrate)

Species: Mouse

Immunogen: Recombinant heavy chain of human IgM

Clone: M373

Isotype: IgG1, kappa

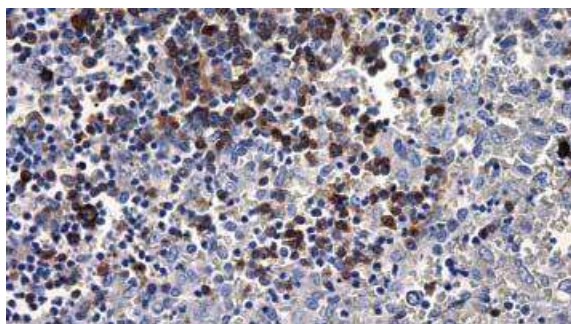
Species Reactivity: Human. Others not known.

Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.

Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0146-C.1	0.1 ml
RA0146-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone 2D11-H5 (INS05) (Concentrate)**

Species: Mouse

Immunogen: Purified pig insulin, conjugated to KLH

Clone: 2D11-H5 (INS05)

Isotype: IgG1, kappa

Species Reactivity: Human, Cow and Pig. Does not react with Mouse and Rat. Others not known.

Positive Control: MIA PaCa-2 cells or Pancreas.

Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0161-C.1	0.1 ml
RA0161-C.5	0.5 ml

Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone E2-E3 & 2D11-H5 (INS04 & INS05) (Concentrate)

Species: Mouse

Immunogen: Purified pig insulin, conjugated to KLH

Clone: E2-E3 & 2D11-H5 (INS04 & INS05)

Isotype: IgG1, kappa (E2-E3); IgG1, kappa (2D11-H5)

Species Reactivity: Human, Cow Pig, Rabbit, and Rat. Others not known.

Positive Control: MIA PaCa-2 cells or Pancreas.

Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0163-C.1	0.1 ml
RA0163-C.5	0.5 ml

Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone E2-E3 (INS04) (Concentrate)

Species: Mouse

Immunogen: Purified pig insulin, conjugated to KLH

Clone: E2-E3 (INS04)

Isotype: IgG1, kappa

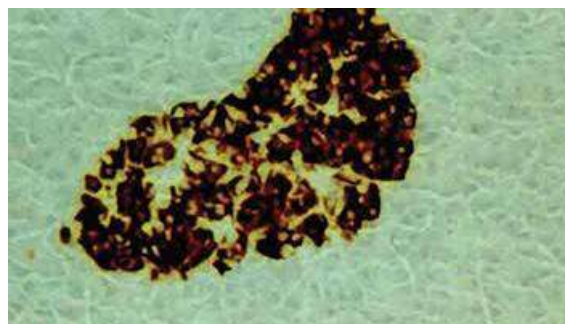
Species Reactivity: Human, Cow Pig, Rabbit, and Rat. Others not known.

Positive Control: MIA PaCa-2 cells or Pancreas.

Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0162-C.1	0.1 ml
RA0162-C.5	0.5 ml



Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone IRDN/794 (Concentrate)

Species: Mouse
 Immunogen: Recombinant INS protein
 Clone: RDN/794
 Isotype: I gG1, kappa
 Species Reactivity: Human, Cow and Pig. Does not react with Mouse and Rat. Others not known.
 Positive Control: MIA PaCa-2 cells or Pancreas.
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0164-C.1	0.1 ml
RA0164-C.5	0.5 ml

Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone IRDN/805 (Concentrate)

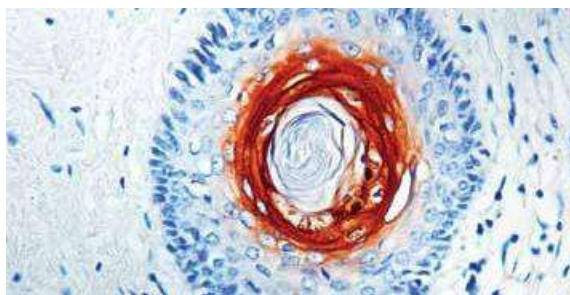
Species: Mouse
 Immunogen: Recombinant INS protein
 Clone: I RDN/805
 Isotype: I gG1, kappa
 Species Reactivity: Human, Cow, Pig, Rabbit and Rat. Others not known. Others not known.
 Positive Control: MIA PaCa-2 cells or Pancreas.
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0165-C.1	0.1 ml
RA0165-C.5	0.5 ml

Involucrin (Squamous Cell Terminal Differentiation Marker); Clone IVRN/827 (Concentrate)

Species: Mouse
 Immunogen: Purified involucrin from human keratinocytes
 Clone: I VRN/827
 Isotype: I gG1, kappa
 dysplasias of the larynx and cervix.
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7 cells. Localized to upper spinous and granular layers in normal skin.
 Specificity: This antibody recognizes a protein of 66kDa-170kDa, identified as involucrin. In Western blotting of cultured human keratinocytes, this antibody reacts with a 120kDa protein. It stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog, and a doublet of 105kDa in pig. Its epitope maps between codon 421-568 of human involucrin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0167-C.1	0.1 ml
RA0167-C.5	0.5 ml

**Involucrin (Squamous Cell Terminal Differentiation Marker); Clone SY5 (Concentrate)**

Species: Mouse
 Immunogen: Purified involucrin from human keratinocytes
 Clone: SY5
 Isotype: IgG1, kappa
 Species Reactivity: Human, Gorilla, Owl monkey, Pig, and Dog. Does not react with Mouse. Others not known.
 Positive Control: MCF-7 cells. Localized to upper spinous and granular layers in normal skin.
 Specificity: This antibody recognizes a protein of 66kDa-170kDa, identified as involucrin. In Western blotting of cultured human keratinocytes, this antibody reacts with a 120kDa protein. It stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog, and a doublet of 105kDa in pig. Its epitope maps between codon 421-568 of human involucrin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0166-C.1	0.1 ml
RA0166-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone HP6053 & L1C1 (Concentrate)

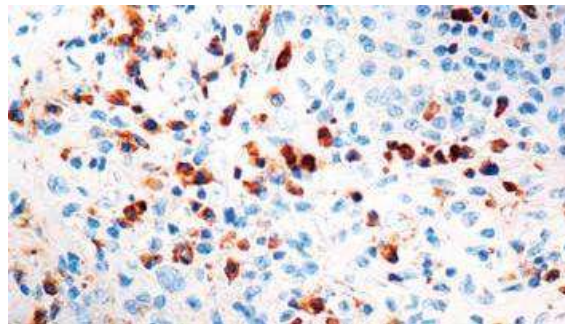
Species: Mouse
 Immunogen: Purified human Ig kappa chain (HP6053); Human B-Lymphoma Cells (L1C1)
 Clone: HP6053 & L1C1
 Isotype: IgG1, kappa (HP6053); IgG1, kappa (L1C1)
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0152-C.1	0.1 ml
RA0152-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone HP6053 (Concentrate)

Species: Mouse
 Immunogen: Purified human Ig kappa chain
 Clone: HP6053
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0151-C.1	0.1 ml
RA0151-C.5	0.5 ml



Kappa Light Chain (B-Cell marker); Clone Kap-56 (Concentrate)

Species: Mouse
 Immunogen: Human lymphocytes stimulated
 Clone: Kap-56
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0154-C.1	0.1 ml
RA0154-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone KLC264 (Concentrate)

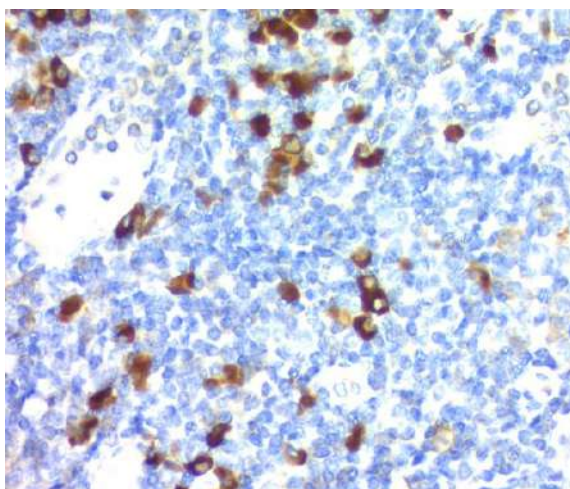
Species: Mouse
 Immunogen: Recombinant human Ig kappa chain
 Clone: KLC264
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0149-C.1	0.1 ml
RA0149-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone KLC709 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Ig kappa chain
 Clone: KLC709
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0153-C.1	0.1 ml
RA0153-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone L1C1 (Concentrate)**

Species: Mouse
 Immunogen: Human B-Lymphoma Cells
 Clone: L1C1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0148-C.1	0.1 ml
RA0148-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone TB28-2 (Concentrate)

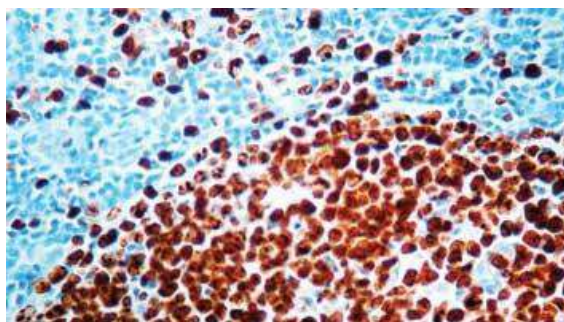
Species: Mouse
 Immunogen: Human IgG-kappa myeloma protein
 Clone: TB28-2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0150-C.1	0.1 ml
RA0150-C.5	0.5 ml

KBA.62 (Melanoma Associated Antigen); Clone KBA.62 (Concentrate)

Species: Mouse
 Immunogen: Human KAL cells derived from lymph node metastasis of malignant melanoma
 Clone: KBA.62
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Melanoma
 Specificity: KBA.62 is a novel anti-melanoma antibody. It reacts positively against melanocytic tumors but not against other tumors, thus demonstrating specificity and sensitivity. Moreover, it reacts positively against junctional nevus cells but not intradermal nevi, and against fetal melanocytes but not normal adult melanocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0416-C.1	0.1 ml
RA0416-C.5	0.5 ml



**Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16;
Clone CDH16/1071 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human CDH16 protein
 Clone: CDH16/1071
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Rabbit and Dog. Others not known.
 Positive Control: Normal kidney or renal cell carcinoma.
 Specificity: This antibody recognizes a protein of 130kDa, identified as Ksp-cadherin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0431-C.1	0.1 ml
RA0431-C.5	0.5 ml
RA0431-C1	1 ml

**Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16;
Clone CDH16/1532R (Concentrate)**

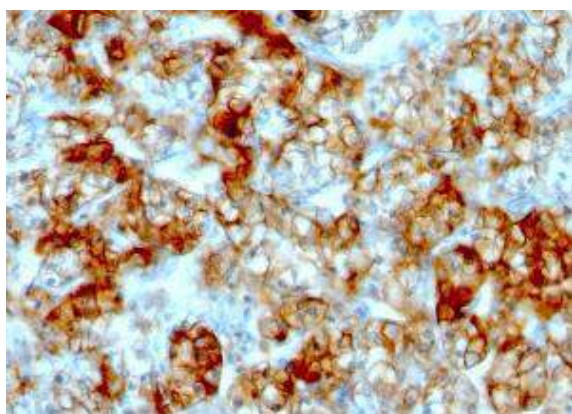
Species: Rabbit
 Immunogen: Recombinant human full-length CDH16 protein
 Clone: CDH16/1532R
 Isotype: Rabbit / IgG, kappa
 Species Reactivity: Human, Mouse and Rat. Others not known.
 Positive Control: Normal kidney or renal cell carcinoma.
 Specificity: This monoclonal Ab recognizes a protein of 130kDa, identified as Ksp-cadherin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0470-C.1	0.1 ml
RA0470-C.5	0.5 ml
RA0470-C1	1 ml

**Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16;
Clone rCDH16/1071 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant full-length human CDH16 protein
 Clone: rCDH16/1071
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human, Mouse, Rabbit and Dog. Others not known.
 Positive Control: Normal kidney or renal cell carcinoma.
 Specificity: This MAb recognizes a protein of 130kDa, identified as Ksp-cadherin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0468-C.1	0.1 ml
RA0468-C.5	0.5 ml
RA0468-C1	1 ml

**Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16;
Clone SPM594 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human CDH16 protein
 Clone: SPM594
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Rabbit and Dog. Others not known.
 Positive Control: Normal kidney or renal cell carcinoma.
 Specificity: This antibody recognizes a protein of 130kDa, identified as Ksp-cadherin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0469-C.1	0.1 ml
RA0469-C.5	0.5 ml
RA0469-C1	1 ml

**Lambda Light Chain (B-Cell Marker); Clone HP6054
(Concentrate)**

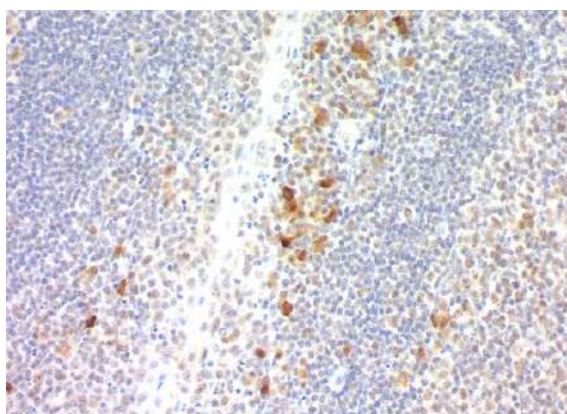
Species: Mouse
 Immunogen: Purified human IgG myeloma proteins coupled to polyaminostyrene microbeads.
 Clone: HP6054
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0156-C.1	0.1 ml
RA0156-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone ICO-106
(Concentrate)**

Species: Mouse
 Immunogen: Purified human IgG
 Clone: ICO-106
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0155-C.1	0.1 ml
RA0155-C.5	0.5 ml



Lambda Light Chain (B-Cell Marker); Clone LAM03 (Concentrate)

Species: Mouse
 Immunogen: Purified human lambda light chain
 Clone: LAM03
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0158-C.1	0.1 ml
RA0158-C.5	0.5 ml

Lambda Light Chain (B-Cell Marker); Clone Lamb14 (Concentrate)

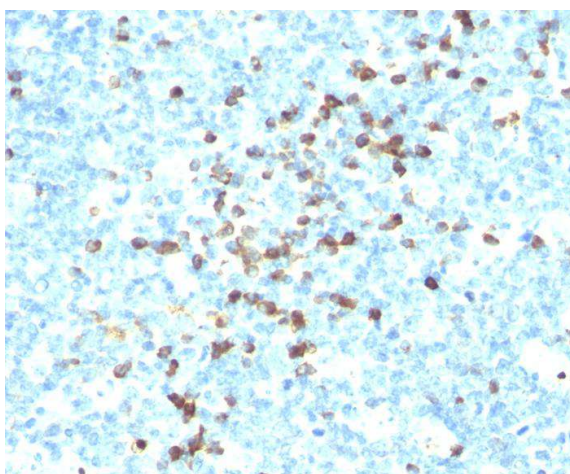
Species: Mouse
 Immunogen: Purified human lambda light chain
 Clone: Lamb14
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0160-C.1	0.1 ml
RA0160-C.5	0.5 ml

Lambda Light Chain (B-Cell Marker); Clone LcN-2 & ICO-106 (Concentrate)

Species: Mouse
 Immunogen: Purified human IgG (LcN-2 & ICO-106)
 Clone: LcN-2 & ICO-106
 Isotype: IgG2a, kappa (LcN-2); IgG1, kappa (ICO-106)
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0159-C.1	0.1 ml
RA0159-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone LcN-2 (Concentrate)**

Species: Mouse
 Immunogen: Purified human IgG
 Clone: LcN-2
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0157-C.1	0.1 ml
RA0157-C.5	0.5 ml

LH, alpha (Luteinizing Hormone, alpha); Clone LHα/756 (Concentrate)

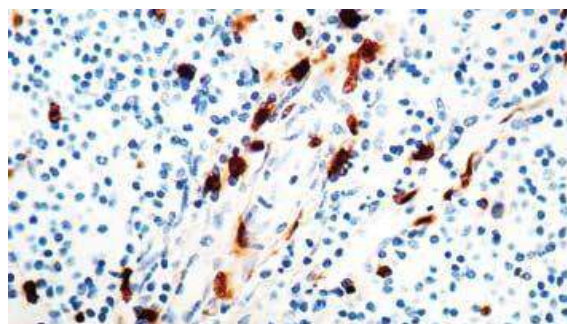
Species: Mouse
 Immunogen: Recombinant full-length hLH alpha protein.
 Clone: LHα/756
 Isotype: IgG1, kappa
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: Anterior Pituitary.
 Specificity: This MAb reacts with a protein of ~13kDa, identified as alpha sub-unit of Luteinizing Hormone (LH).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0505-C.1	0.1 ml
RA0505-C.5	0.5 ml
RA0505-C1	1 ml

Macrophage Marker (Calgranulin A/B); Clone CAG/426 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Calgranulin protein
 Clone: CAG/426
 Isotype: IgG1, kappa
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.
 Positive Control: Tonsil, lymph node, or spleen.
 Specificity: Recognizes a 12-14kDa subunit of Calgranulin A/B (also known as S100A8/A9 or MRP-8/14); this protein is expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia, and has been shown to be an important marker for identifying macrophages in tissue sections.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0288-C.1	0.1 ml
RA0288-C.5	0.5 ml



Macrophage Marker (Macrophage L1 Protein) (Calprotectin); Clone MAC387 (Concentrate)

Species: Mouse

Immunogen: Affinity purified monocyte membrane preparation

Clone: MAC387

Isotype: IgG1, kappa

Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.

Positive Control: Tonsil, lymph node, or spleen.

Specificity: This antibody recognizes the L1 or Calprotectin molecule, an intra-cytoplasmic antigen comprised of 12-14kDa subunits expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and has been shown to be an important marker for identifying macrophages in tissue sections.

Status: RUO

Catalog Number	Volume
RA0287-C.1	0.1 ml
RA0287-C.5	0.5 ml

Macrophage Marker (Myeloid-Related Proteins 8/14) (MRP-8/MRP-14); Clone MRP/840 (Concentrate)

Species: Mouse

Immunogen: Recombinant human MRP protein

Clone: MRP/840

Isotype: IgG1, kappa

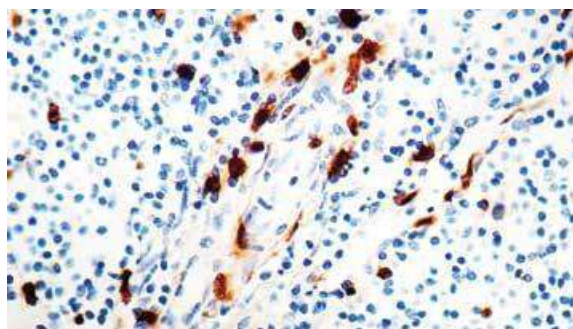
Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.

Positive Control: Tonsil, lymph node, or spleen.

Specificity: Recognizes a 12-14kDa subunit of MRP-8/14 (also known as Calgranulin A/B or S100A8/A9); expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and has been shown to be an important marker for identifying macrophages in tissue sections.

Status: RUO

Catalog Number	Volume
RA0290-C.1	0.1 ml
RA0290-C.5	0.5 ml



Macrophage Marker (S100A8/A9); Clone S100/722 (Concentrate)

Species: Mouse

Immunogen: Recombinant human S100 protein

Clone: S100/722

Isotype: IgG1, kappa

Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.

Positive Control: Tonsil, lymph node, or spleen.

Specificity: Recognizes a 12-14kDa subunit of S100A8/A9 (also known as Calgranulin A/B or MRP-8/14); expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia, and has been shown to be an important marker for identifying macrophages in tissue sections.

Status: RUO

Catalog Number	Volume
RA0289-C.1	0.1 ml
RA0289-C.5	0.5 ml

MAGE-1 (Target for Cancer Immunotherapy); Clone MA454 (Concentrate)

Species: Mouse

Immunogen: Human MAGE-A1 full length recombinant protein

Clone: MA454

Isotype: IgG1, kappa

Species Reactivity: Human, Rat and Dog. Others not known.

Positive Control: Melanoma cell lines. Melanomas, gliomas, neuroblastoma, non-small cell lung cancer, breast, gastric, colorectal, ovarian, and renal cell carcinomas.

Specificity: Recognizes a protein of 42-46kDa, identified as MAGE-1. This antibody does not cross-react with MAGE-2, -3, -4, -6 -9, -10, -or -12 proteins.

Status: RUO

Catalog Number	Volume
RA0201-C.1	0.1 ml
RA0201-C.5	0.5 ml

MAGE-1 (Target for Cancer Immunotherapy); Clone MZ2E/838 (Concentrate)

Species: Mouse

Immunogen: Recombinant human MAGEA1 protein

Clone: MZ2E/838

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Melanoma cell lines. Melanomas, gliomas, neuroblastoma, non-small cell lung cancer, breast, gastric, colorectal, ovarian, and renal cell carcinomas.

Specificity: Recognizes a protein of 42-46kDa, identified as MAGE-1. This antibody does not cross-react with MAGE-2, -3, -4, -6 -9, -10, -or -12 proteins.

Status: RUO

Catalog Number	Volume
RA0202-C.1	0.1 ml
RA0202-C.5	0.5 ml

Major Vault Protein (MVP); Clone 1014 (Concentrate)

Species: Mouse
 Immunogen: Proteins precipitated from human breast cancer MCF-7 cells
 Clone: 1014
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: MCF-7/HeLa cells, breast tumors.
 Specificity: Recognizes a protein of 104kDa-110kDa, characterized as major vault protein (MVP).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0349-C.1	0.1 ml
RA0349-C.5	0.5 ml

Major Vault Protein (MVP); Clone 1032 (Concentrate)

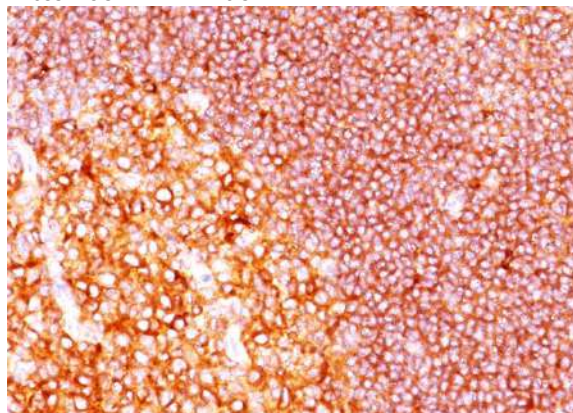
Species: Mouse
 Immunogen: Proteins precipitated from human breast cancer MCF-7 cells
 Clone: 1032
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: MCF-7/HeLa cells, breast tumors.
 Specificity: Recognizes a protein of 104kDa-110kDa, characterized as major vault protein (MVP).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0350-C.1	0.1 ml
RA0350-C.5	0.5 ml

MALT1 (MALT-Lymphoma Marker); Clone MT1/410 (Concentrate)

Species: Mouse
 Immunogen: Human MALT1 recombinant fragment (aa 701-808)
 Clone: MT1/410
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat, Daudi, or HeLa cells. Tonsil or lymphoma.
 Specificity: Highly expressed in peripheral blood mononuclear cells. Detected at lower levels in bone marrow, thymus and lymph node, and at very low levels in colon and lung.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0352-C.1	0.1 ml
RA0352-C.5	0.5 ml

**MALT1 (MALT-Lymphoma Marker); Clone SPM578 (Concentrate)**

Species: Mouse
 Immunogen: Human MALT1 recombinant fragment (aa701-808).
 Clone: SPM578
 Isotype: IgG1, kappa
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: Jurkat, Daudi, or HeLa cells. Lymphoma.
 Specificity: Recognizes the 93kDa protein, MALT1 (aa701-808).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0509-C.1	0.1 ml
RA0509-C.5	0.5 ml
RA0509-C1	1 ml

MART-1 / Melan-A / MLANA (Melanoma Marker); Clone A103 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein
 Clone: A103
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomylipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0114-C.1	0.1 ml
RA0114-C.5	0.5 ml

MART-1 / Melan-A / MLANA (Melanoma Marker); Clone A103, M2-7C10 & M2-9E3 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein (A103; M2-7C10; M2-9E3)
 Clone: A103, M2-7C10 & M2-9E3
 Isotype: IgG1 (A103); IgG2b (M2-7C10 & M2-9E3)
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomylipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0115-C.1	0.1 ml
RA0115-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);
Clone DT101 & BC199 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein (DT101 & BC199)

Clone: DT101 & BC199

Isotype: IgG2b, kappa (DT101 & BC199)

Species Reactivity: Human. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0117-C.1	0.1 ml
RA0117-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);
Clone M2-7C10 & M2-9E3 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein (M2-7C10; M2-9E3)

Clone: M2-7C10 & M2-9E3

Isotype: IgG2b, kappa (M2-7C10 & M2-9E3)

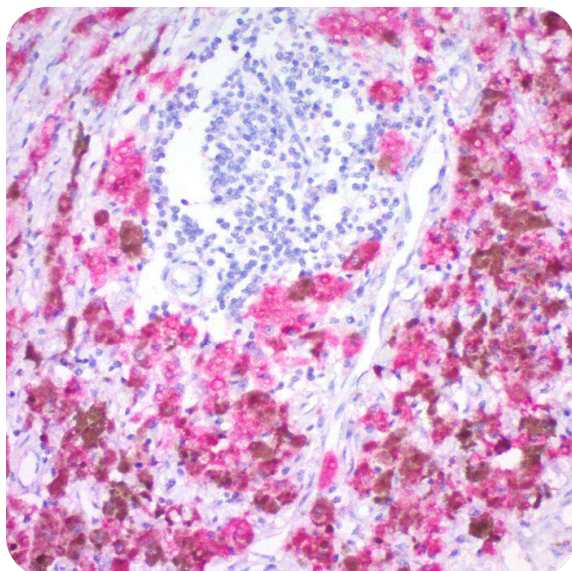
Species Reactivity: Human, Mouse and Rat. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0116-C.1	0.1 ml
RA0116-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);
Clone M2-7C10 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein

Clone: M2-7C10

Isotype: IgG2b, kappa

Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0112-C.1	0.1 ml
RA0112-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);
Clone M2-9E3 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein

Clone: M2-9E3

Isotype: IgG2b, kappa

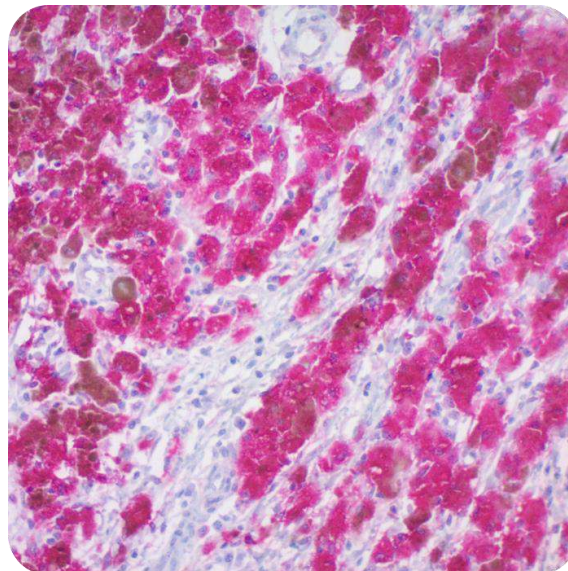
Species Reactivity: Human, Mouse and Rat. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0113-C.1	0.1 ml
RA0113-C.5	0.5 ml



MART-1 / Melan-A / MLANA (Melanoma Marker); Clone MLANA/788 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MLANA protein
 Clone: MLANA/788
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0118-C.1	0.1 ml
RA0118-C.5	0.5 ml

MCAM (Melanoma Cell Adhesion Molecule) / MUC18 / CD146; Clone MCAM/1101 (Concentrate)

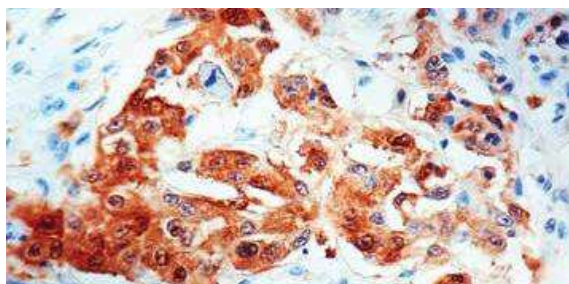
Species: Mouse
 Immunogen: Recombinant human MCAM protein
 Clone: MCAM/1101
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A-375, HUVEC, or HeLa Cells. Tonsil or Melanoma.
 Specificity: This antibody recognizes a 130kDa protein known as the Melanoma Cell Adhesion Molecule.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0442-C.1	0.1 ml
RA0442-C.5	0.5 ml
RA0442-C1	1 ml

MCAM (Melanoma Cell Adhesion Molecule) / MUC18 / CD146; Clone MUC18/1130 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MCAM protein
 Clone: MUC18/1130
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A-375, HUVEC, or HeLa Cells. Tonsil or Melanoma.
 Specificity: This antibody recognizes a 130kDa protein known as the Melanoma Cell Adhesion Molecule.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0444-C.1	0.1 ml
RA0444-C.5	0.5 ml
RA0444-C1	1 ml

**MCAM (Melanoma Cell Adhesion) / MUC18 / CD146; Clone C146/634 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human MCAM protein
 Clone: C146/634
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A-375, HUVEC, or HeLa Cells. Tonsil or Melanoma.
 Specificity: This antibody recognizes a 130kDa protein known as the Melanoma Cell Adhesion Molecule.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0443-C.1	0.1 ml
RA0443-C.5	0.5 ml
RA0443-C1	1 ml

Melanoma Marker (MART-1 & gp100); Clone DT101, BC199, & HMB45 (Concentrate)

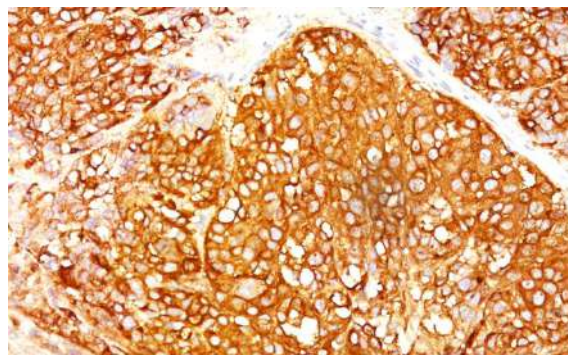
Species: Mouse
 Immunogen: Recombinant hMART-1 protein (DT101 & BC199); Extract of pigmented melanoma metastases from lymph nodes (HMB45).
 Clone: DT101, BC199, & HMB45
 Isotype: IgG2b (DT101 & BC199); IgG1 (HMB45).
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.
 Specificity: This antibody cocktail recognizes two melanoma-specific proteins which include MART-1 and gp100.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0413-C.1	0.1 ml
RA0413-C.5	0.5 ml

Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone A103, T311, & HMB45 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein (A103); Recombinant tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45).
 Clone: A103, T311, & HMB45
 Isotype: IgG1 (A103); IgG2a (T311); IgG1 (HMB45).
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0412-C.1	0.1 ml
RA0412-C.5	0.5 ml



Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone DT101, BC199, T311, & HMB45 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein (DT101 & BC199); Extract of pigmented melanoma metastases from lymph nodes (HMB45); Recombinant tyrosinase protein (T311).
 Clone: DT101, BC199, T311, & HMB45
 Isotype: I gG2b (DT101 & BC199); IgG1 (HMB45); IgG2a (T311).
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0414-C.1	0.1 ml
RA0414-C.5	0.5 ml

Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone M2-7C10, M2-9E3, T311, & HMB45 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein (M2-7C10; M2-9E3); Recombinant tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45).
 Clone: M2-7C10, M2-9E3, T311, & HMB45
 Isotype: I gG2b (M2-7C10 & M2-9E3); IgG2a (T311); IgG1 (HMB45).
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0411-C.1	0.1 ml
RA0411-C.5	0.5 ml

Microphthalmia Transcription Factor (MITF); Clone D5 & MITF/915 (Concentrate)

Species: Mouse
 Immunogen: N-terminal fragment of human MITF protein (D5); Recombinant human MITF protein (MITF/915)
 Clone: D5 & MITF/915
 Isotype: I gG1, kappa (D5); IgG1, kappa (MITF/915)
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0210-C.1	0.1 ml
RA0210-C.5	0.5 ml

Microphthalmia Transcription Factor (MITF); Clone D5 (Concentrate)

Species: Mouse
 Immunogen: N-terminal fragment of human MITF protein
 Clone: D5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0207-C.1	0.1 ml
RA0207-C.5	0.5 ml

Microphthalmia Transcription Factor (MITF); Clone MITF/915 (Concentrate)

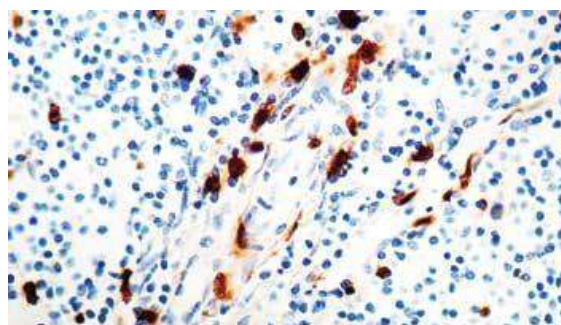
Species: Mouse
 Immunogen: Recombinant human MITF protein
 Clone: MITF/915
 Isotype: IgG1, kappa
 Species Reactivity: Human and Dog. Does not react with Mouse and Rat. Others not tested.
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0208-C.1	0.1 ml
RA0208-C.5	0.5 ml

Mitochondria (Marker for Human Cells); Clone AE-1 (Concentrate)

Species: Mouse
 Immunogen: Semi-purified mitochondrial preparation
 Clone: AE-1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0396-C.1	0.1 ml
RA0396-C.5	0.5 ml



Mitochondria (Marker for Human Cells); Clone MTC02 (Concentrate)

Species: Mouse
 Immunogen: Semi-purified mitochondrial preparation
 Clone: MTC02
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0393-C.1	0.1 ml
RA0393-C.5	0.5 ml

Mitochondria (Marker for Human Cells, Granular RCC's & Salivary Tumors); Clone 113-1 (Concentrate)

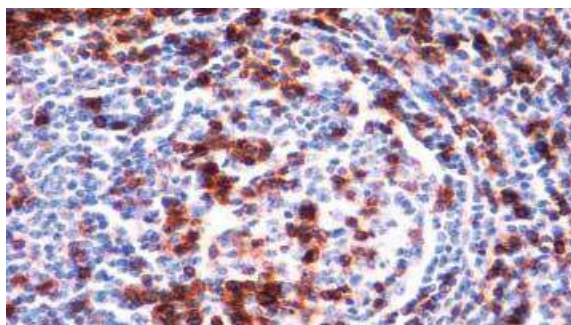
Species: Mouse
 Immunogen: Semi-purified mitochondrial preparation
 Clone: 113-1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells. It can be used to stain mitochondria in cell or tissue preparations and can be used as a mitochondrial marker in subcellular fractions.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0392-C.1	0.1 ml
RA0392-C.5	0.5 ml

Mitochondrial Marker; Clone MTC719 (Concentrate)

Species: Mouse
 Immunogen: Mitochondrial fraction of HeLa cells
 Clone: MTC719
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows broad species reactivity. Does not react with insects or bacteria.
 Positive Control: HeLa or HepG2 cells. Hepatic carcinomas.
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0394-C.1	0.1 ml
RA0394-C.5	0.5 ml

**Mitochondrial Marker; Clone MTC754 (Concentrate)**

Species: Mouse
 Immunogen: Mitochondrial fraction of HeLa cells
 Clone: MTC754
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows broad species reactivity including insects and bacteria.
 Positive Control: HeLa or HepG2 cells. Hepatic carcinomas.
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0395-C.1	0.1 ml
RA0395-C.5	0.5 ml

Moesin; Clone MSN491 (Concentrate)

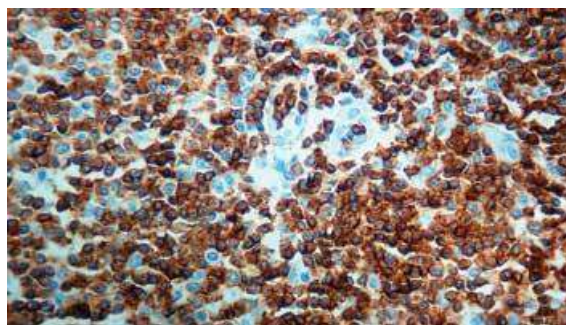
Species: Mouse
 Immunogen: Recombinant human moesin protein
 Clone: MSN491
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HT-29, CH3LC, or HUVEC cells. Uterus, placenta, tonsil (both B- and T-lymphocytes), skeletal muscle, thyroid, or kidney.
 Specificity: This antibody recognizes the 78kDa moesin protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0211-C.1	0.1 ml
RA0211-C.5	0.5 ml

MUC1 / EMA / CD227 (Epithelial Marker); Clone 139H2 (Concentrate)

Species: Mouse
 Immunogen: Human milk-fat globule membranes
 Clone: 139H2
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.
 Specificity: 139H2 reacts with MUC1, a large transmembrane glycoprotein expressed on the ductal surface of normal glandular epithelia. The dominant epitope of 139H2 has not yet been determined. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0217-C.1	0.1 ml
RA0217-C.5	0.5 ml



MUC1 / EMA / CD227 (Epithelial Marker); Clone E29 (Concentrate)

Species: Mouse

Immunogen: Delipidated extract of human milk fat globule membranes

Clone: E29

Isotype: IgG2a, kappa

Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0214-C.1	0.1 ml
RA0214-C.5	0.5 ml

MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 & E29 (Concentrate)

Species: Mouse

Immunogen: Human milk fat globule membranes (GP1.4); Delipidated extract of human milk fat globule membranes (E29).
Clone: GP1.4 & E29

Isotype: IgG1, kappa (GP1.4); IgG2a, kappa (E29)

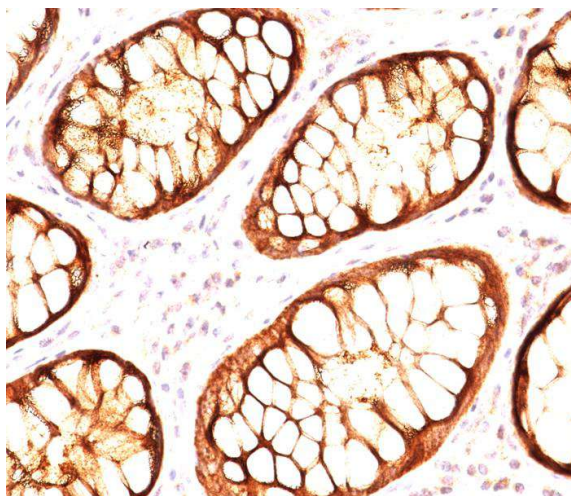
Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.

Positive Control: Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0215-C.1	0.1 ml
RA0215-C.5	0.5 ml

**MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 (Concentrate)**

Species: Mouse

Immunogen: Human milk fat globule membranes

Clone: GP1.4

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0212-C.1	0.1 ml
RA0212-C.5	0.5 ml

MUC1 / EMA / CD227 (Epithelial Marker); Clone HMPV (Concentrate)

Species: Mouse

Immunogen: Human breast cancer cell line ZR-75 cells

Clone: HMPV

Isotype: IgM, kappa

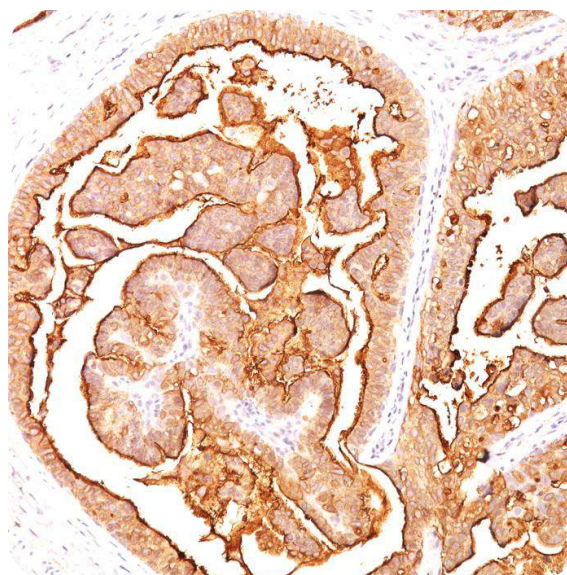
Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: HMPV recognizes full-length MUC1 in a glycosylation-independent manner and can bind to the fully glycosylated protein. The dominant epitope of HMPV is APDTR in the VNTR region. It reacts with the core peptide of the MUC1 protein. This antibody has been shown to react with both normal and malignant epithelia of various tissues including breast and colon.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0218-C.1	0.1 ml
RA0218-C.5	0.5 ml



MUC1 / EMA / CD227 (Epithelial Marker); Clone PEM/845 (Concentrate)

Species: Mouse

Immunogen: Recombinant human MUC1 protein

Clone: PEM/845

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0216-C.1	0.1 ml
RA0216-C.5	0.5 ml

MUC2 (Mucin 2); Clone CCP58 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide of 29 amino acids, KYPTTPISTTTMTPTPTGTQTPTTT from MUC2 protein, coupled to KLH.

Clone: CCP58

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: LS174T cells or small intestine.

Specificity: Recognizes a single glycoprotein of 520kDa, identified as mucin 2 (MUC2). This antibody shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC3.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0219-C.1	0.1 ml
RA0219-C.5	0.5 ml

MUC2 (Mucin 2); Clone MLP/842 (Concentrate)

Species: Mouse

Immunogen: Recombinant human MUC2 protein

Clone: MLP/842

Isotype: IgG1, kappa

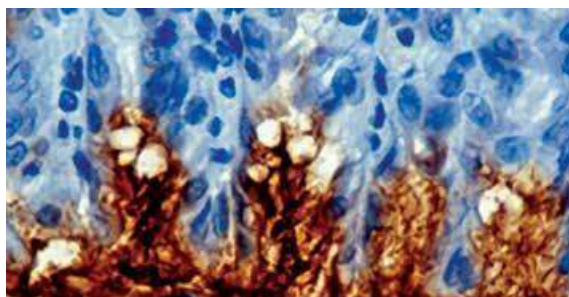
Species Reactivity: Human. Others not known.

Positive Control: LS174T cells or small intestine.

Specificity: Recognizes a single glycoprotein of 520kDa, identified as mucin 2 (MUC2). This antibody shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC3.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0220-C.1	0.1 ml
RA0220-C.5	0.5 ml

**MUC5AC (Mucin 5AC / Gastric Mucin); Clone 45M1 (Concentrate)**

Species: Mouse

Immunogen: M1 mucin preparation from the fluid of an ovarian mucinous cyst belonging to an O Le(a-b) patient.

Clone: 45M1

Isotype: IgG1, kappa

Positive Control: Stomach

Cellular Localization: Cytoplasmic

Specificity: This antibody recognizes the peptide core of gastric mucin M1 (>1,000kDa) (recently identified as Mucin 5AC). Its epitope is destroyed by beta-mercaptoethanol and proteases, but not by periodate treatment. This antibody to gastric mucin M1 reacts with the gastric epithelium of normal human gastrointestinal tract as well as with the precancerous and cancerous colon, but it does not react with normal adult colon. It also reacts with fetal colonic mucosa. Resurgence of gastric mucin reactivity during colonic carcinogenesis is due to re-expression of the peptide core of gastric (or fetal colonic) mucins.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0221-C.1	0.1 ml
RA0221-C.5	0.5 ml

MUC5AC (Mucin 5AC / Gastric Mucin); Clone CLH2 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide of human MUC5AC tandem repeat.

Clone: CLH2

Isotype: IgG1, kappa

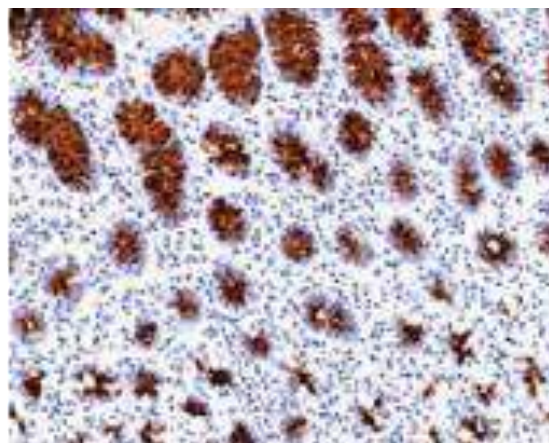
Species Reactivity: Human. Others not known.

Positive Control: Stomach

Specificity: Together with a panel of antibodies, anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification of intestinal metaplasia as well as in the identification of pancreatic carcinoma and pre-cancerous changes vs. normal pancreas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0222-C.1	0.1 ml
RA0222-C.5	0.5 ml



MUC5AC (Mucin 5AC / Gastric Mucin); Clone MUC5AC/917 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MUC5AC protein
 Clone: MUC5AC/917
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Stomach
 Specificity: Together with a panel of antibodies, anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification of intestinal metaplasia as well as in the identification of pancreatic carcinoma and pre-cancerous changes vs. normal pancreas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0223-C.1	0.1 ml
RA0223-C.5	0.5 ml

MUC6 (Mucin 6 / Gastric Mucin); Clone CLH5 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide of the Gastric Mucin 6 tandem repeat sequence
 Clone: CLH5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Stomach
 Specificity: Mucin 6 expression is highest in the stomach and gall bladder, with lower expression in the terminal ileum and right colon. In gastric cancer, Mucin 6 has an altered expression. In normal stomach, Mucin 6 is associated with Lewis type 2 antigens; Mucin 6 is also expressed in gastric metaplasia, duodenum, and pancreas. Mucin 6 is a secretory mucin, located in the deeper mucosal folds of human gall bladder, and its expression is altered with increasing degrees of inflammation.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0224-C.1	0.1 ml
RA0224-C.5	0.5 ml

MUC6 (Mucin 6 / Gastric Mucin); Clone MUC6/916 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MUC6 protein
 Clone: MUC6/916
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Stomach
 Specificity: Mucin 6 expression is highest in the stomach and gall bladder, with lower expression in the terminal ileum and right colon. In gastric cancer, Mucin 6 has an altered expression. In normal stomach, Mucin 6 is associated with Lewis type 2 antigens; Mucin 6 is also expressed in gastric metaplasia, duodenum, and pancreas. Mucin 6 is a secretory mucin, located in the deeper mucosal folds of human gall bladder, and its expression is altered with increasing degrees of inflammation.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0225-C.1	0.1 ml
RA0225-C.5	0.5 ml

Myeloid Cell Marker (Macrophage / Granulocyte Marker); Clone BM-1 (Concentrate)

Species: Mouse
 Immunogen: Human peripheral blood mononuclear cells
 Clone: BM-1
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: HL60 cells. Bone marrow, lymph node or tonsil.
 Specificity: Recognizes a 183kDa protein with DNA-binding characteristics, which is identified as a myeloid specific antigen. Clone BM-1 reacts with myeloid precursor cells and granulocytes in bone marrow. Its antigen appears to be restricted to M2 and M3 acute myelogenous leukemia (AML) subtypes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0400-C.1	0.1 ml
RA0400-C.5	0.5 ml

Myeloid-Associated Differentiation Marker (MYADM); Clone BM-2 (Concentrate)

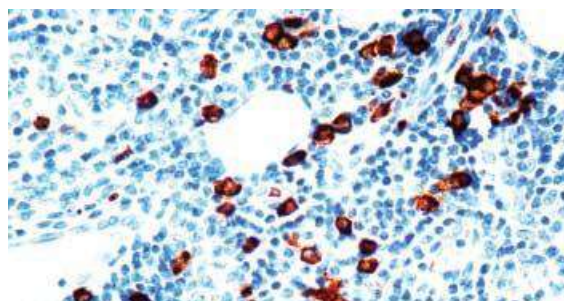
Species: Mouse
 Immunogen: Nuclei from pokeweed mitogen stimulated human peripheral blood lymphocytes
 Clone: BM-2
 Isotype: IgG1
 Species Reactivity: Human and Macaque Monkey. Others not known.
 Positive Control: HL60 cells. Tonsil or lymph node.
 Specificity: Recognizes a myeloid associated differentiation antigen in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell type in human tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0366-C.1	0.1 ml
RA0366-C.5	0.5 ml

Myeloid-Associated Differentiation Marker (MYADM); Clone MYADM/971 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MYADM protein
 Clone: MYADM/971
 Isotype: IgG1
 Species Reactivity: Human and Macaque Monkey. Others not known.
 Positive Control: HL60 cells. Tonsil or lymph node.
 Specificity: This antibody recognizes a myeloid associated differentiation antigen in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell type in human tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0455-C.1	0.1 ml
RA0455-C.5	0.5 ml
RA0455-C1	1 ml



Myeloid-Associated Differentiation Marker (MYADM); Clone MYADM/972 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MYADM protein
 Clone: MYADM/972
 Isotype: IgG1
 Species Reactivity: Human and Macaque Monkey. Others not known.
 Positive Control: HL60 cells. Tonsil or lymph node.
 Specificity: This antibody recognizes a myeloid associated differentiation antigen in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell type in human tissues.
 Status: RUO

Catalog Number	Volume
RA0456-C.1	0.1 ml
RA0456-C.5	0.5 ml
RA0456-C1	1 ml

MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A & MYD712 (Concentrate)

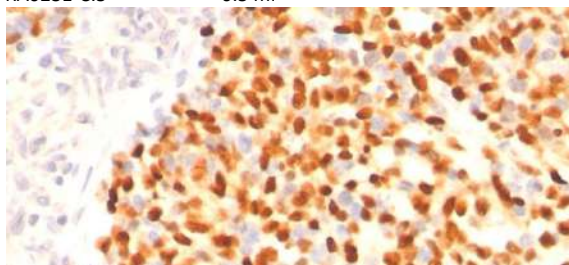
Species: Mouse
 Immunogen: Recombinant mouse MyoD1 protein (5.8A); Recombinant human MyoD1 protein (MYD712)
 Clone: 5.8A & MYD712
 Isotype: IgG1, kappa (5.8A); IgG1, kappa (MYD712)
 Species Reactivity: Human, Mouse, Rat, and Chicken. Others not known.
 Positive Control: Rhabdomyosarcoma
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.
 Status: RUO

Catalog Number	Volume
RA0233-C.1	0.1 ml
RA0233-C.5	0.5 ml

MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A (Concentrate)

Species: Mouse
 Immunogen: Recombinant mouse MyoD1 protein
 Clone: 5.8A
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, and Chicken. Others not known.
 Positive Control: Rhabdomyosarcoma
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. The epitope of this antibody maps between amino acids 180-189 in the C-terminal region of the mouse MyoD1 protein. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.
 Status: RUO

Catalog Number	Volume
RA0231-C.1	0.1 ml
RA0231-C.5	0.5 ml

**MyoD1 (Rhabdomyosarcoma Marker); Clone MYD712 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human MyoD1 protein
 Clone: MYD712
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Rhabdomyosarcoma
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.
 Status: RUO

Catalog Number	Volume
RA0232-C.1	0.1 ml
RA0232-C.5	0.5 ml

Myogenin (Skeletal Muscle Marker); Clone F5D (Concentrate)

Species: Mouse
 Immunogen: Rat myogenin peptide (aa 73-94) followed by rat myogenin recombinant fragment (aa 30-224) (Epitope aa 138-158)
 Clone: F5D
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Dog, Cat, and Pig. Others not known.
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.
 Status: RUO

Catalog Number	Volume
RA0235-C.1	0.1 ml
RA0235-C.5	0.5 ml

Myogenin (Skeletal Muscle Marker); Clone MGN185 & F5D (Concentrate)

Species: Mouse
 Immunogen: Human myogenin recombinant protein (MGN185); Rat myogenin recombinant fragment containing amino acid 30-224 (F5D)
 Clone: MGN185 & F5D
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Cat, and Pig. Others not known.
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.
 Status: RUO

Catalog Number	Volume
RA0236-C.1	0.1 ml
RA0236-C.5	0.5 ml

Myogenin (Skeletal Muscle Marker); Clone MGN185 (Concentrate)

Species: Mouse
 Immunogen: Human myogenin recombinant protein
 Clone: MGN185
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Cat and Pig. Others not known.
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0234-C.1	0.1 ml
RA0234-C.5	0.5 ml

Napsin A (Lung Adenocarcinoma Marker); Clones NAPSA/1238 & NAPSA/1239 (Concentrate)

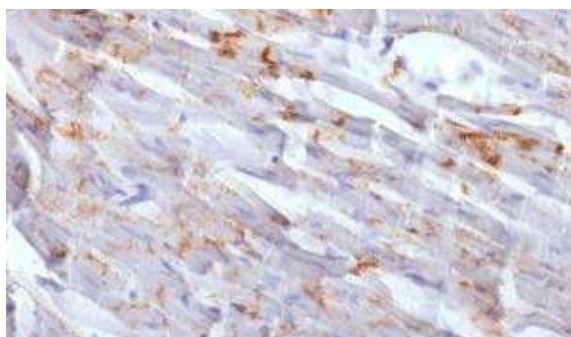
Species: Mouse
 Immunogen: Recombinant human Napsin-A protein fragment (aa 189-299). Exact sequence is proprietary.
 Clones: NAPSA/1238 & NAPSA/1239
 Isotype: IgG1, Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Lung adenocarcinoma.
 Specificity: This antibody is specific for a pepsin-like aspartic proteinase identified as Napsin A.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0479-C.1	0.1 ml
RA0479-C.5	0.5 ml
RA0479-C1	1 ml

N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone 13A9 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human N-cadherin cytoplasmic domain (exact sequence is proprietary)
 Clone: 13A9
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0463-C.1	0.1 ml
RA0463-C.5	0.5 ml
RA0463-C1	1 ml

**N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone 8C11 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human N-cadherin cytoplasmic domain (exact sequence is proprietary)
 Clone: 8C11
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex
 Specificity: Recognizes a protein of ~140kDa, identified as N-Cadherin (NCAD), also known as CD325.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0464-C.1	0.1 ml
RA0464-C.5	0.5 ml
RA0464-C1	1 ml

N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone CDH2/1573 (Concentrate)

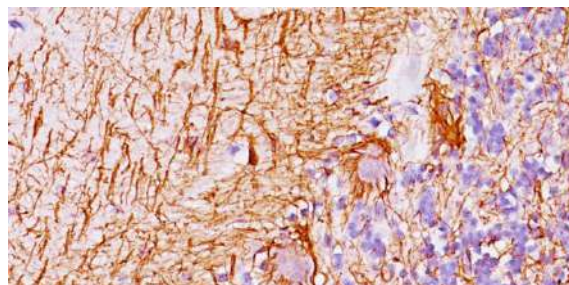
Species: Mouse
 Immunogen: Recombinant human N-cadherin cytoplasmic domain (exact sequence is proprietary)
 Clone: CDH2/1573
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex
 Specificity: Recognizes a protein of ~140kDa, identified as N-Cadherin (NCAD), also known as CD325.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0465-C.1	0.1 ml
RA0465-C.5	0.5 ml
RA0465-C1	1 ml

Neurofilament (H & L) (Neuronal Marker); Clone NF421 & NFL/736 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human neurofilament heavy subunit (NF421) & light subunit (NFL/736).
 Clone: NF421 & NFL/736
 Isotype: IgG1 NF421; IgG1 NFL/736
 Species Reactivity: Human, Mouse, Rat, Chicken, and Pig. Others not known.
 Positive Control: Brain and Neuroblastoma.
 Specificity: This antibody reacts with a 200kDa and 68kDa protein, identified as heavy and light subunits of neurofilaments (NF-H & NF-L).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0408-C.1	0.1 ml
RA0408-C.5	0.5 ml



Neurofilament (H & L) (Neuronal Marker); Clone RT97 & NR-4 (Concentrate)

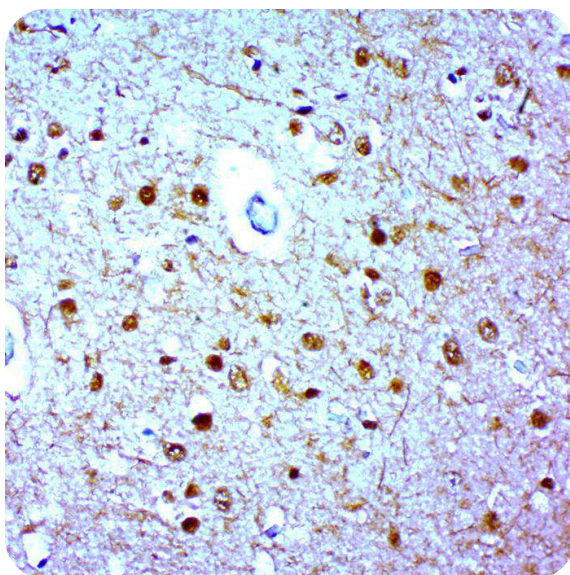
Species: Mouse
 Immunogen: Triton-X 100 insoluble protein fraction of rat brain (RT-97); Pig neurofilament light sub-unit (NR-4).
 Clone: RT97 & NR-4
 Isotype: IgG1 (RT97); IgG1 (NR-4)
 Species Reactivity: Human, Mouse, Rat, Chicken, and Pig.
 Others not known.
 Positive Control: Brain and Neuroblastoma.
 Specificity: This antibody reacts with a 200kDa and 68kDa protein, identified as heavy and light subunits of neurofilaments (NF-H & NF-L).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0407-C.1	0.1 ml
RA0407-C.5	0.5 ml

Neurofilament (NF-H) (Neuronal Marker); Clone NF421 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human neurofilament protein
 Clone: NF421
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Pig and Chicken.
 Others not known.
 Positive Control: Brain, Neuroblastoma.
 Specificity: This antibody reacts with a 200kDa protein, identified as the heavy subunit of neurofilaments (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0243-C.1	0.1 ml
RA0243-C.5	0.5 ml

**Neurofilament (NF-H) (Neuronal Marker); Clone RT97 (Concentrate)**

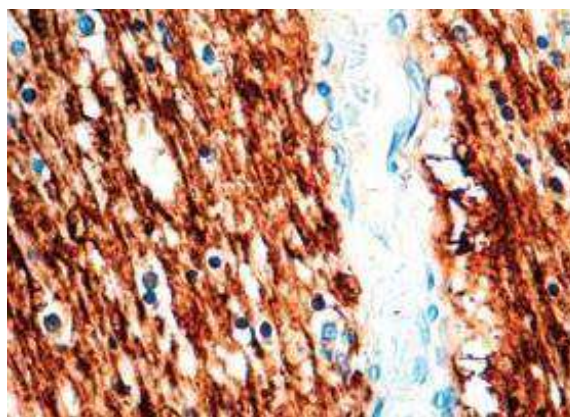
Species: Mouse
 Immunogen: Triton-X 100 insoluble protein fraction of rat brain
 Clone: RT97
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Pig and Chicken.
 Others not known.
 Positive Control: Brain, Neuroblastoma.
 Specificity: This antibody reacts with a 200kDa protein, identified as the heavy subunit of neurofilaments (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0244-C.1	0.1 ml
RA0244-C.5	0.5 ml

Neurofilament (NF-L) (Neuronal Marker); Clone NFL/736 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human NF-L protein
 Clone: NFL/736
 Isotype: IgG1
 Species Reactivity: Human, Rat, Pig, Cow and Chicken. Others not known.
 Positive Control: Brain, Neuroblastoma.
 Specificity: This antibody reacts with a 68kDa protein, identified as the light subunit of neurofilaments (NF-L). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0246-C.1	0.1 ml
RA0246-C.5	0.5 ml



Neurofilament (NF-L) (Neuronal Marker); Clone NR-4 (Concentrate)

Species: Mouse

Immunogen: Pig neurofilament, light sub-unit (NF-L)

Clone: NR-4

Isotype: IgG1

Species Reactivity: Human, Rat, Pig, Cow and Chicken. Others not known.

Positive Control: Brain, Neuroblastoma.

Specificity: This antibody reacts with a 68kDa protein, identified as the light subunit of neurofilaments (NF-L). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0245-C.1	0.1 ml
RA0245-C.5	0.5 ml

NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NGFR5 & NTR/912 (Concentrate)

Species: Mouse

Immunogen: Recombinant human p75 NGFR protein

Clone: NGFR5 & NTR/912

Isotype: IgG1, kappa (NGFR5); IgG1, kappa (NTR/912)

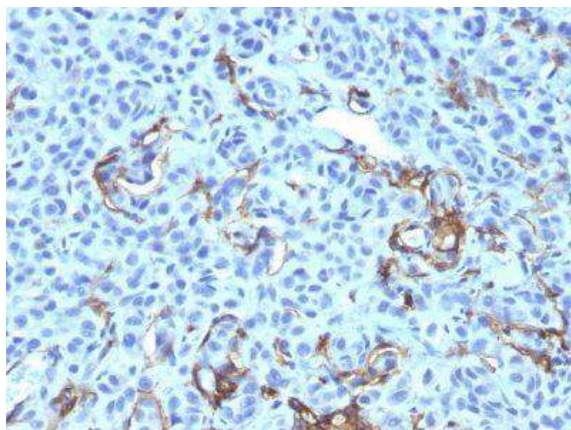
Species Reactivity: Human and Non-human Primates. Does not react with Mouse and Rat. Others not known.

Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.

Specificity: Recognizes a glycoprotein of 75kDa, identified as low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Reportedly, anti-NGFR is a reliable marker for desmoplastic and neurotropic melanomas. Anti-NGFR stains the myoepithelial cells of breast ducts and intra-lobular fibroblasts of breast ducts.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0249-C.1	0.1 ml
RA0249-C.5	0.5 ml

**NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NGFR5 (Concentrate)**

Species: Mouse

Immunogen: NGFR from A875 melanoma cells

Clone: NGFR5

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey, Baboon, Cat, Rabbit and Ferret. Does not react with Mouse and Rat. Others not known.

Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.

Specificity: Recognizes a glycoprotein of 75kDa, identified as the low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Its epitope resides within aa 1-160 of the extracellular domain of NGFR/NTR.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0247-C.1	0.1 ml
RA0247-C.5	0.5 ml

NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NTR/912 (Concentrate)

Species: Mouse

Immunogen: Recombinant human p75 NGFR protein

Clone: NTR/912

Isotype: IgG1, kappa

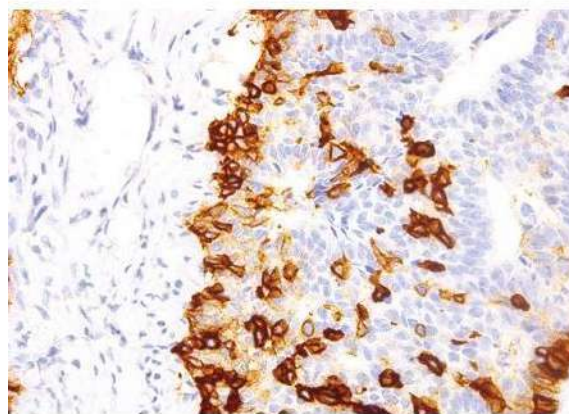
Species Reactivity: Human and Non-human Primates. Does not react with Mouse and Rat. Others not known.

Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.

Specificity: Recognizes a glycoprotein of 75kDa, identified as low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Reportedly, anti-NGFR is a reliable marker for desmoplastic and neurotropic melanomas. Anti-NGFR stains the myoepithelial cells of breast ducts and intra-lobular fibroblasts of breast ducts.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0248-C.1	0.1 ml
RA0248-C.5	0.5 ml



NKX2.2 (Neuroendocrine & Ewing Sarcoma Marker); Clone NX2/294 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human NKX2.2 protein
 Clone: NX2/294
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Mouse, Rat and Chicken. Others not known.
 Positive Control: Pancreas or Ewing sarcoma.
 Specificity: The NKX2.2 protein was identified as a target of EWS-FLI-1, the fusion protein specific to Ewing sarcoma, and was shown to be differentially upregulated in Ewing sarcoma on the basis of array-based gene expression analysis. It acts as a valuable marker for Ewing sarcoma, with a sensitivity of 93% and a specificity of 89%, and aids in the differential diagnosis of small round cell tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0250-C.1	0.1 ml
RA0250-C.5	0.5 ml

NSE gamma (Neuron Specific Enolase, gamma) (Neuroendocrine Marker); Clone ENO2/1462 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide corresponding to aa416-433 of human NSE gamma (exact sequence is proprietary)
 Clone: ENO2/1462
 Isotype: Mouse / IgG2b
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2, SH-SY-5Y, HeLa or Y79 cells. Pancreas, Cerebellum or Pheochromocytoma.
 Specificity: Recognizes a protein of about 50kDa, which is identified as gamma-enolase.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0462-C.1	0.1 ml
RA0462-C.5	0.5 ml
RA0462-C1	1 ml

Nuclear Membrane Marker; Clone AE-5 (Concentrate)

Species: Mouse
 Immunogen: Nuclei of myeloid leukemia biopsy cells
 Clone: AE-5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil.
 Specificity: This antibody recognizes an antigen associated with the nuclear membrane expressed in human cells. It can be used to stain the nuclear membrane in cell or tissue preparations and can be used as a marker of the nuclear membrane in subcellular fractions.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0402-C.1	0.1 ml
RA0402-C.5	0.5 ml

Nuclear Membrane Marker; Clone NM97 (Concentrate)

Species: Mouse
 Immunogen: Nuclei of myeloid leukemia biopsy cells
 Clone: NM97
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Human cell lines or tonsil.
 Specificity: Clone NM97 recognizes an antigen associated with the nuclear membrane expressed in human cells. It can be used to stain the nuclear membrane in cell or tissue preparations and can be used as a marker of the nuclear membrane in subcellular fractions.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0401-C.1	0.1 ml
RA0401-C.5	0.5 ml

Nuclear Mitotic Apparatus Protein (NuMA); Clone A73-B/D12 (Concentrate)

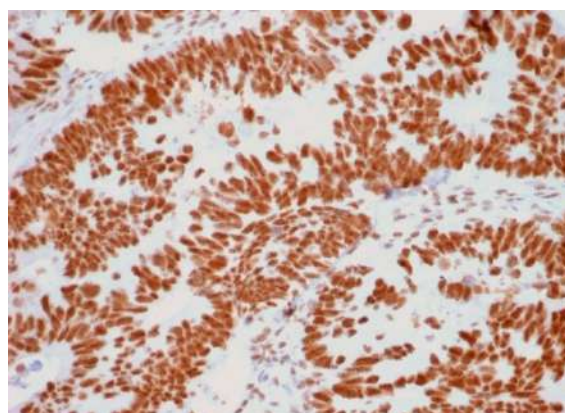
Species: Mouse
 Immunogen: Colon carcinoma 174T cells
 Clone: A73-B/D12
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Exponentially growing any cultured human cells. Tonsil or lymph node.
 Specificity: Recognizes a phosphorylated protein of 228kDa, identified as nuclear mitotic apparatus protein (NuMA). Its epitope is resistant to phosphatases.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0251-C.1	0.1 ml
RA0251-C.5	0.5 ml

Nucleoli Marker; Clone NM95 (Concentrate)

Species: Mouse
 Immunogen: Nuclei of myeloid leukemia biopsy cells
 Clone: NM95
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil
 Specificity: Clone NM95 recognizes an antigen associated with the nucleoli in human cells. It can be used to stain the nucleoli in cell or tissue preparations and can be used as a marker of the nucleoli in subcellular fractions.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0404-C.1	0.1 ml
RA0404-C.5	0.5 ml



Nucleolin (Marker of Nucleoli); Clone NCL/902 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human nucleolin protein
 Clone: NCL/902
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse, Rat and Cow. Others not known.
 Positive Control: HeLa cells, breast cancer.
 Specificity: Recognizes a protein of ~76kDa, which is identified as Nucleolin (NCL). This antibody can be used to stain the nucleoli in cell or tissue preparations and can be used as a marker of the nucleoli in subcellular fractions. It produces a speckled pattern in the nuclei of normal and malignant cells and may be used to stain the nucleoli of cells in fixed or frozen tissue sections. It can be used with paraformaldehyde-fixed frozen tissue or cell preparations and formalin-fixed, paraffin-embedded tissue sections.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0242-C.1	0.1 ml
RA0242-C.5	0.5 ml

Ornithine Decarboxylase-1 (ODC-1); Clone ODC1/485 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human ODC-1 protein
 Clone: ODC1/485
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Epithelial cells in normal placenta or prostate carcinoma.
 Specificity: Recognizes a 53kDa protein, identified as Ornithine Decarboxylase (ODC-1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0252-C.1	0.1 ml
RA0252-C.5	0.5 ml

p21WAF1 (Tumor Suppressor Protein); Clone CIP1/823 & DCS-60.2 (Concentrate)

Species: Mouse
 Immunogen: Recombinant full-length human CDKN1A protein (CIP1/823); Human recombinant p21 protein (DCS-60.2)
 Clone: CIP1/823 & DCS-60.2
 Isotype: Mouse / IgG2a, kappa
 Species Reactivity: Human, does not react with mouse and rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This MAb is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0473-C.1	0.1 ml
RA0473-C.5	0.5 ml
RA0473-C1	1 ml

p21WAF1 (Tumor Suppressor Protein); Clone CIP1/823 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CDKN1A protein
 Clone: CIP1/823
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0076-C.1	0.1 ml
RA0076-C.5	0.5 ml

p21WAF1 (Tumor Suppressor Protein); Clone DCS-60.2 (Concentrate)

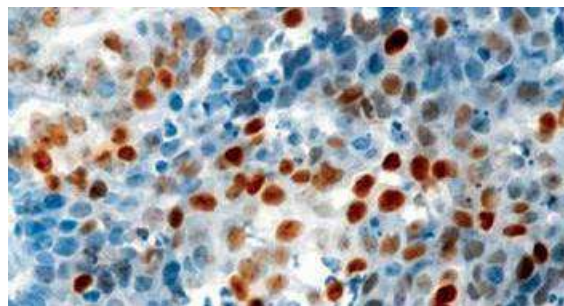
Species: Mouse
 Immunogen: Human recombinant p21 protein
 Clone: DCS-60.2
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This monoclonal antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This antibody is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0075-C.1	0.1 ml
RA0075-C.5	0.5 ml

p21WAF1 (Tumor Suppressor Protein); Clone HJ21 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant p21 protein
 Clone: HJ21
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human, Monkey, Chimpanzee, Mouse and Rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0472-C.1	0.1 ml
RA0472-C.5	0.5 ml
RA0472-C1	1 ml



p21WAF1 (Tumor Suppressor Protein); Clone SPM306 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant p21 protein
 Clone: SPM306
 Isotype: IgG2a, kappa
 Species Reactivity: Human, does not react with mouse and rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This MAb is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0471-C.1	0.1 ml
RA0471-C.5	0.5 ml
RA0471-C1	1 ml

p21WAF1 (Tumor Suppressor Protein); Clone WA-1 (HJ21) (Concentrate)

Species: Mouse
 Immunogen: Human recombinant p21 protein
 Clone: WA-1 (HJ21)
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Mouse and Rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0074-C.1	0.1 ml
RA0074-C.5	0.5 ml

p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone DCS-72.F6 & KIP1/769 (Concentrate)

Species: Mouse
 Immunogen: Mouse recombinant p27 protein (DCS-72.F6); Recombinant human CDKN1B protein (KIP1/769)
 Clone: DCS-72.F6 + KIP1/769
 Isotype: Mouse / IgG's
 Species Reactivity: Human, monkey, mouse and rat. Others not known.
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, HeLa or MCF7 cells. Tonsil, Breast, Cervical or Colon Carcinoma.
 Specificity: Recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0475-C.1	0.1 ml
RA0475-C.5	0.5 ml
RA0475-C1	1 ml

p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone DCS-72.F6 (Concentrate)

Species: Mouse
 Immunogen: Mouse recombinant p27 protein
 Clone: DCS-72.F6
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat and Monkey. Others not known
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, Breast or Colon Carcinoma.
 Specificity: Recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. Its epitope spans between amino acids 83-204 of p27. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0079-C.1	0.1 ml
RA0079-C.5	0.5 ml

p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone KIP1/769 (Concentrate)

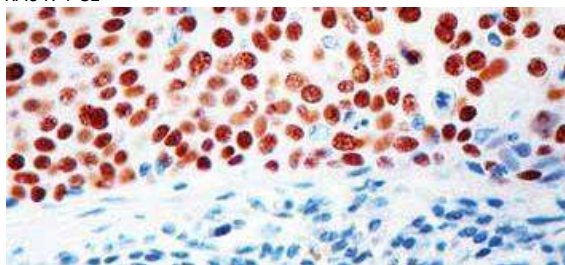
Species: Mouse
 Immunogen: Recombinant human CDKN1B protein
 Clone: KIP1/769
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat and Monkey. Others not known.
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, breast or colon carcinoma.
 Specificity: This antibody recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.

<u>Catalog Number</u>	<u>Volume</u>
RA0078-C.1	0.1 ml
RA0078-C.5	0.5 ml

p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone SPM348 (Concentrate)

Species: Mouse
 Immunogen: Purified GST-p27 fusion protein of mouse origin
 Clone: SPM348
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human, mouse, rat and monkey. Others not known
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, Breast or Colon Ca
 Specificity: This MAb recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0474-C.1	0.1 ml
RA0474-C.5	0.5 ml
RA0474-C1	1 ml



p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone SX53G8 (Concentrate)

Species: Mouse

Immunogen: Purified GST-p27 fusion protein of human origin

Clone: SX53G8

Isotype: IgG1, kappa

Species Reactivity: Human, Mouse, Rat and Monkey. Others not known.

Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, breast or colon carcinoma.

Specificity: This antibody recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0077-C.1	0.1 ml
RA0077-C.5	0.5 ml

p53 Tumor Suppressor Protein; Clone BP53-12 & DO-7 (Concentrate)

Species: Mouse

Immunogen: Recombinant human wild-type p53 protein (BP53-12); Recombinant human wild type p53 protein expressed in E. coli (DO-7).

Clone: BP53-12 & DO-7

Isotype: IgG2a (BP53-12); IgG2b, kappa (DO-7)

Species Reactivity: Human, Monkey, and Cow. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions. Its epitope maps within the N-terminus (aa 20-25) of p53.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0321-C.1	0.1 ml
RA0321-C.5	0.5 ml

p53 Tumor Suppressor Protein; Clone BP53-12 (Concentrate)

Species: Mouse

Immunogen: Recombinant human wild type p53 protein

Clone: BP53-12

Isotype: IgG2a

Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions. Its epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0318-C.1	0.1 ml
RA0318-C.5	0.5 ml

p53 Tumor Suppressor Protein; Clone DO-7 (Concentrate)

Species: Mouse

Immunogen: Recombinant human wild type p53 protein expressed in E. coli.

Clone: DO-7

Isotype: IgG2b, kappa

Species Reactivity: Human, Monkey, and Cow. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53. Its epitope maps within the N-terminus (aa 37-45) of p53.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0319-C.1	0.1 ml
RA0319-C.5	0.5 ml

p53 Tumor Suppressor Protein; Clone TRP/816 (Concentrate)

Species: Mouse

Immunogen: Recombinant human TP53 protein

Clone: TRP/816

Isotype: IgG2a

Species Reactivity: Human. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0322-C.1	0.1 ml
RA0322-C.5	0.5 ml

p53 Tumor Suppressor Protein; Clone TRP/817 (Concentrate)

Species: Mouse

Immunogen: Recombinant human TP53 protein

Clone: TRP/817

Isotype: IgG2b, kappa

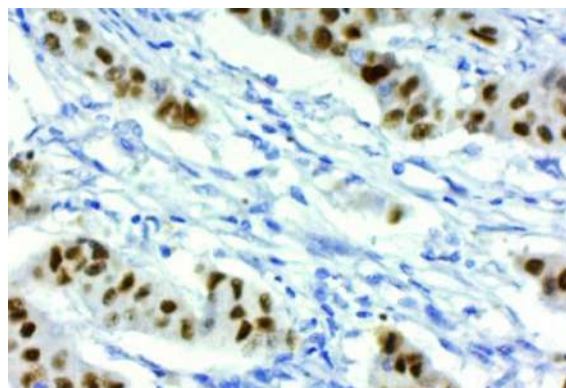
Species Reactivity: Human. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0323-C.1	0.1 ml
RA0323-C.5	0.5 ml



p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone 57P06 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human p57Kip2 protein
 Clone: 57P06
 Isotype: IgG2b, kappa
 Species Reactivity: Human and Mouse. Others-not known
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon or Prostate carcinomas.
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0478-C.1	0.1 ml
RA0478-C.5	0.5 ml
RA0478-C1	1 ml

p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KIP2/880 (Concentrate)

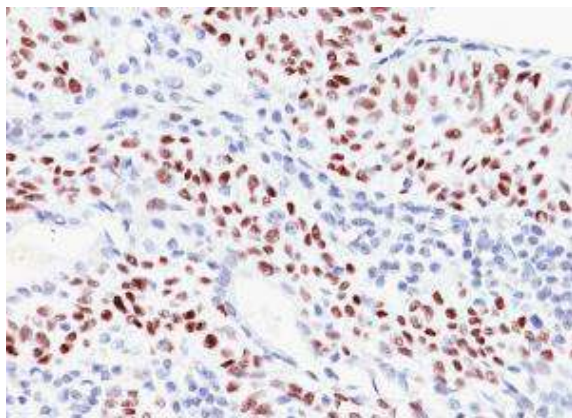
Species: Mouse
 Immunogen: Recombinant human p57Kip2 protein
 Clone: KIP2/880
 Isotype: IgG2b, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon carcinomas.
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0081-C.1	0.1 ml
RA0081-C.5	0.5 ml

p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KP10 & KIP2/880 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human p57Kip2 protein
 Clone: KP10 + KIP2/880
 Isotype: IgG's
 Species Reactivity: Human and Mouse. Others: not known
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon or Prostate carcinomas.
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0477-C.1	0.1 ml
RA0477-C.5	0.5 ml
RA0477-C1	1 ml

**p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KP10 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human p57Kip2 protein
 Clone: KP10
 Isotype: IgG2b, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon carcinomas.
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0080-C.1	0.1 ml
RA0080-C.5	0.5 ml

p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone SPM308 (Concentrate)

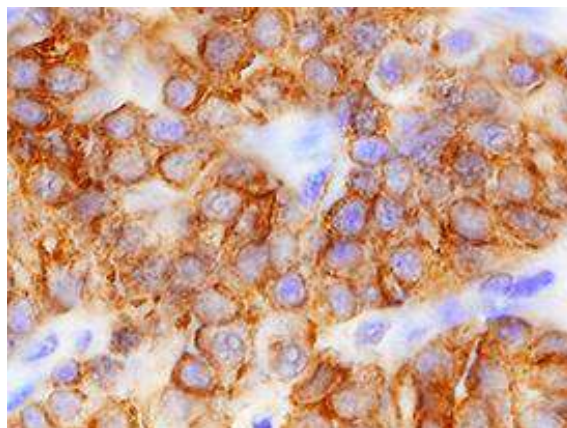
Species: Mouse
 Immunogen: Recombinant human p57Kip2 protein
 Clone: SPM308
 Isotype: IgG2b, kappa
 Species Reactivity: Human and mouse. Others not known
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon or Prostate carcinomas.
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0476-C.1	0.1 ml
RA0476-C.5	0.5 ml
RA0476-C1	1 ml

Parathyroid Hormone (PTH); Clone 3H9 (Concentrate)

Species: Mouse
 Immunogen: Synthetic peptide corresponding to amino acids 1 to 34 of mature PTH conjugated to a carrier
 Clone: 3H9
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Predicted to react with Mouse, Rat, Rabbit, Cow, Dog, Pig, Deer, and Orangutan.
 Positive Control: Human parathyroid gland carcinoma.
 Specificity: The epitope of this antibody maps in between amino acids 1-34.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0272-C.1	0.1 ml
RA0272-C.5	0.5 ml



Parathyroid Hormone (PTH); Clone PTH1/911 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PTH polypeptide
 Clone: PTH1/911
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Human parathyroid gland carcinoma.
 Specificity: The epitope of this antibody maps in between amino acids 1-34.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0273-C.1	0.1 ml
RA0273-C.5	0.5 ml

P-Cadherin (CDH3); Clone 12H6 (Concentrate)

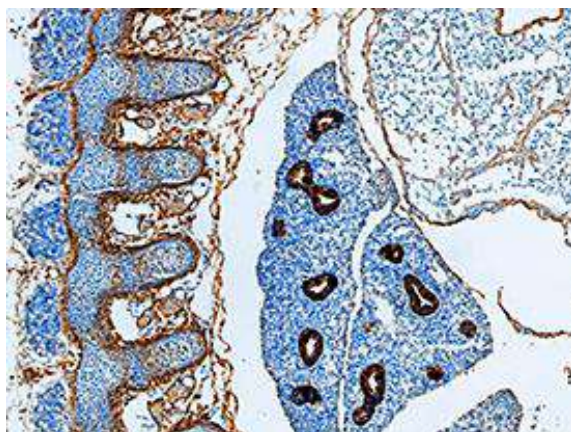
Species: Mouse
 Immunogen: Recombinant human full-length P-cadherin fusion protein
 Clone: 12H6
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A431 or PC-3 cells. Pancreas, Placenta or Prostate
 Specificity: Recognizes a protein of 116kDa, identified as P-Cadherin-1 (CDH3).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0466-C.1	0.1 ml
RA0466-C.5	0.5 ml
RA0466-C1	1 ml

P-Cadherin (CDH3); Clone 6A9 (Concentrate)

Species: Mouse
 Immunogen: A431 trypsinized membranes
 Clone: 6A9
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A431 or PC-3 cells. Pancreas, Placenta or Prostate
 Specificity: Recognizes a protein of 116kDa, identified as P-Cadherin-1 (CDH3).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0467-C.1	0.1 ml
RA0467-C.5	0.5 ml
RA0467-C1	1 ml

**PCNA (Proliferating Cell Nuclear Antigen) (G1- & S-phase Marker); Clone PC10 (Concentrate)**

Species: Mouse
 Immunogen: Rat PCNA/Protein A fusion protein
 Clone: PC10
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Monkey, Pig, Mouse, Rat, Chicken, Zebrafish, Drosophila melanogaster and Yeast (S. pombe & S. cerevisiae). Others not known.
 Positive Control: Tonsil or reactive lymph node.
 Specificity: Recognizes a non-histone protein of 36kDa, which is identified as proliferating cell nuclear antigen (PCNA). It is also known as cyclin or polymerase delta auxiliary protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0253-C.1	0.1 ml
RA0253-C.5	0.5 ml

PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone NAT105 (Concentrate)

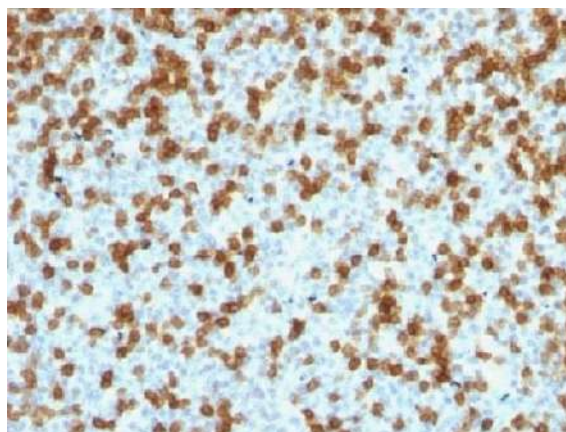
Species: Mouse
 Immunogen: TY cells (human T/NK cell Leukemia)
 Clone: NAT105
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: TY cells or Tonsil.
 Specificity: Anti-PDCD1 is a marker of angioimmunoblastic lymphoma and suggests a unique cell of origin for this neoplasm.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0254-C.1	0.1 ml
RA0254-C.5	0.5 ml

PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone PDCD1/922 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PDCD1 protein
 Clone: PDCD1/922
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: TY cells or Tonsil.
 Specificity: Anti-PDCD-1 is a marker of angioimmunoblastic lymphoma and suggests a unique cell of origin for this neoplasm.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0255-C.1	0.1 ml
RA0255-C.5	0.5 ml



PD-L1 / PDCD1LG1 / CD274 / B7-H1; Clone PDL1/2746

Species: Mouse
 Immunogen: Recombinant fragment of human CD274 protein (around aa 39-191). Exact sequence is proprietary.
 Clone: PDL1/2746
 Isotype: IgG2b, kappa
 Species Reactivity: Human and Mouse. Others not tested.
 Positive Control: Heart, Placenta, Spleen or Tonsil. RAW, HEK293 or HepG2 cell lysates. Jurkat cells.
 Specificity: This antibody reacts with PD-L1, also known as B7-H1 or CD274.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0501-C.1	0.1 ml
RA0501-C.5	0.5 ml
RA0501-C1	1 ml

PGP9.5 / Uchl1 (pan-Neuronal Marker); Clone 31A3 (Concentrate)

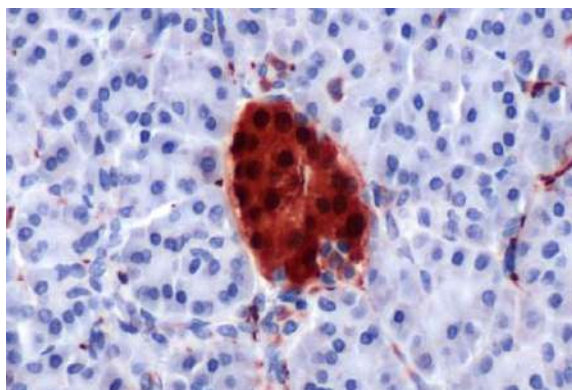
Species: Mouse
 Immunogen: Native Uchl1 (PGP9.5) protein from brain
 Clone: 31A3
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Cow, and Pig. Others not known.
 Positive Control: Cerebellum
 Specificity: This antibody reacts with a protein of 20-30kDa, identified as PGP9.5, also known as ubiquitin carboxyl-terminal hydrolase-1 (Uchl1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0333-C.1	0.1 ml
RA0333-C.5	0.5 ml

PGP9.5 / Uchl1 (pan-Neuronal Marker); Clone PARK5/775 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human UCHL1 protein
 Clone: PARK5/775
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows a broad species reactivity.
 Positive Control: Cerebellum
 Specificity: This antibody reacts with a protein of 20-30kDa, identified as PGP9.5, also known as ubiquitin carboxyl-terminal hydrolase-1 (Uchl1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0334-C.1	0.1 ml
RA0334-C.5	0.5 ml

**Phosphotyrosine (P-Tyr); Clone PTR/793 (Concentrate)**

Species: Mouse
 Immunogen: Phosphotyrosine conjugated to BSA
 Clone: PTR/793
 Isotype: IgG2b
 Species Reactivity: All species.
 Positive Control: MCF-7, MDA-231, T47-D cells or breast carcinoma.
 Specificity: This antibody shows no cross-reaction with other phosphoamino acids and is superb for multiple applications including staining of formalin-fixed, paraffin-embedded tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0420-C.1	0.1 ml
RA0420-C.5	0.5 ml

Phosphotyrosine (P-Tyr); Clone PY20 (Concentrate)

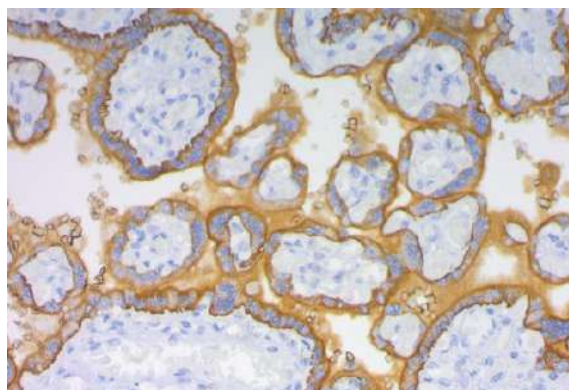
Species: Mouse
 Immunogen: Phosphotyrosine conjugated to KLH
 Clone: PY20
 Isotype: IgG2b
 Species Reactivity: All species
 Positive Control: MCF-7, MDA-231, T47-D cells or breast carcinoma.
 Specificity: This antibody shows no cross-reaction with other phosphoamino acids and is superb for multiple applications, including staining of formalin-fixed, paraffin-embedded tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0419-C.1	0.1 ml
RA0419-C.5	0.5 ml

Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone ALP/870 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PLAP protein
 Clone: ALP/870
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2 cells. Placenta or seminoma.
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0005-C.1	0.1 ml
RA0005-C.5	0.5 ml



Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone GM022 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PLAP protein
 Clone: GM022
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2 cells. Placenta or seminoma.
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0006-C.1	0.1 ml
RA0006-C.5	0.5 ml

Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone PL8-F6 (Concentrate)

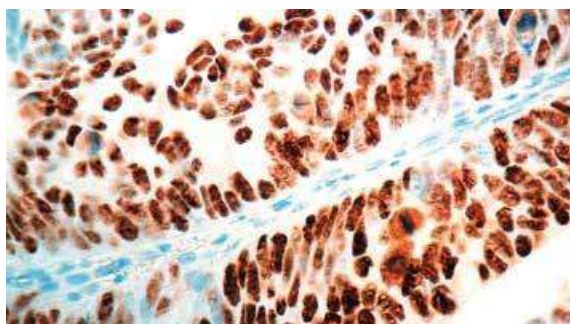
Species: Mouse
 Immunogen: Purified human PLAP protein
 Clone: PL8-F6
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2 cells. Placenta or seminoma.
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0007-C.1	0.1 ml
RA0007-C.5	0.5 ml

Plasma Cell Marker; Clone LIV3G11 (7B18) (Concentrate)

Species: Mouse
 Immunogen: Pancreatic cancer-related mucin
 Clone: LIV3G11; same as 7B18
 Isotype: IgG2a
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: Tonsil or lymph node.
 Specificity: This antibody recognizes an intra-cytoplasmic antigen, which shows a very high degree of specificity for plasma cells. This antigen is present in normal as well as neoplastic plasma cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0398-C.1	0.1 ml
RA0398-C.5	0.5 ml

**PNL2 (Melanoma Associated Antigen); Clone PNL2 (Concentrate)**

Species: Mouse
 Immunogen: Melanocyte antigen
 Clone: PNL2
 Isotype: IgG1
 Species Reactivity: Human, Mouse and Dog. Others not known.
 Positive Control: Melanoma
 Specificity: Anti-PNL2 is a novel monoclonal antibody which has recently been introduced as an immunohistochemical reagent to stain melanocytes and tumors derived therefrom. The antigen recognized by PNL2 is different from Melan A and gp100. Its epitope is not destroyed by digestion with neuraminidase, i.e., its epitope is not glycosylated.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0415-C.1	0.1 ml
RA0415-C.5	0.5 ml

Podocalyxin (PODXL) (Hematopoietic Stem Cell Marker); Clone 3D3 (Concentrate)

Species: Mouse
 Immunogen: A recombinant protein fragment containing the intracellular, transmembrane, and part of the extracellular domain of human podocalyxin
 Clone: 3D3
 Isotype: IgG1
 Species Reactivity: Human, Rabbit, and Rat. Others not known.
 Positive Control: HeLa, Raji, Jurkat cells, and angiosarcoma.
 Specificity: The podocalyxin antibody can identify podocytes in the urine (podocyturia) that may indicate glomerular disease, pre-eclampsia, and other kidney pathology.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0264-C.1	0.1 ml
RA0264-C.5	0.5 ml

Podoplanin (Lymphatic Endothelium & Alveolar Epithelial Marker); Clone PDPN/601 (Concentrate)

Species: Rat
 Immunogen: Recombinant fragment containing platelet-aggregation-stimulating (PLAG) domain of HUMAN podoplanin
 Clone: PDPN/601
 Isotype: IgG2a
 Species Reactivity: Human, Monkey and Gorilla. Does not react with Mouse, Rat, and Hamster. Others not known.
 Positive Control: NCCIT cells. Kidney, placenta, lung, skeletal muscle and brain.
 Specificity: This antibody recognizes the platelet aggregation-stimulating (PLAG) domain of podoplanin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0351-C.1	0.1 ml
RA0351-C.5	0.5 ml

Podoplanin (PDPN) (Lymphatic Endothelial & Mesothelial Marker); Clone PDPN/1433 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Podoplanin (PDPN) protein fragment (aa24-126) (exact sequence is proprietary).
 Clone: PDPN/1433
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others-not known.
 Positive Control: HeLa Cells. Angiosarcoma or Mesothelioma.
 Specificity: This antibody recognizes a mucin-protein of 38-43kDa, which is identified Podoplanin (PDPN).
 Status: RUO

Catalog Number	Volume
RA0495-C.1	0.1 ml
RA0495-C.5	0.5 ml
RA0495-C1	1 ml

Progesterone Receptor (Marker of Progestin Dependence); Clone PR484 (Concentrate)

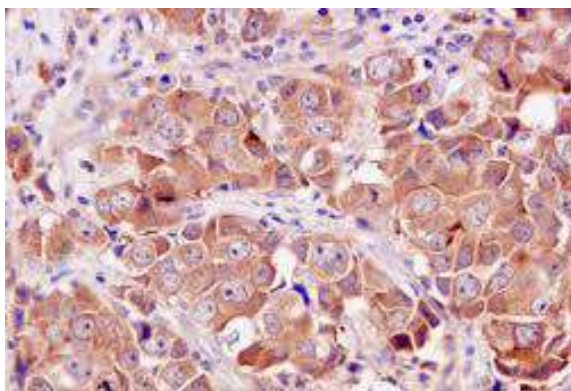
Species: Mouse
 Immunogen: Recombinant human Progesterone Receptor protein
 Clone: PR484
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: T47-D cells or breast cancers.
 Specificity: This antibody is specific to the progesterone receptor and shows minimal cross-reaction with other members of the family.
 Status: RUO

Catalog Number	Volume
RA0263-C.1	0.1 ml
RA0263-C.5	0.5 ml

Prolactin Receptor (PRL-R); Clone B6.2 & PRLR742 (Concentrate)

Species: Mouse
 Immunogen: Semi-purified human prolactin receptor (B6.2); Recombinant human prolactin receptor (PRLR742)
 Clone: B6.2 & PRLR742
 Isotype: IgG1, kappa (B6.2); IgG1, kappa (PRLR742)
 Species Reactivity: Human. Others not known.
 Positive Control: Breast, placenta, liver or pancreas.
 Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.
 Status: RUO

Catalog Number	Volume
RA0271-C.1	0.1 ml
RA0271-C.5	0.5 ml



Prolactin Receptor (PRL-R); Clone B6.2 (Concentrate)

Species: Mouse
 Immunogen: Semi-purified human prolactin receptor
 Clone: B6.2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Breast, placenta, liver or pancreas.
 Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.
 Status: RUO

Catalog Number	Volume
RA0269-C.1	0.1 ml
RA0269-C.5	0.5 ml

Prolactin Receptor (PRL-R); Clone PRLR742 (Concentrate)

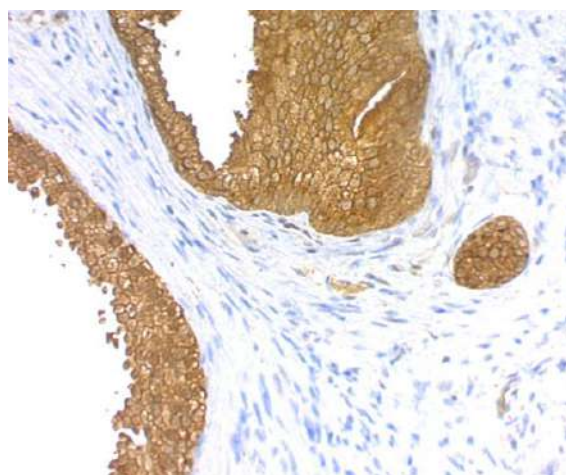
Species: Mouse
 Immunogen: Recombinant human prolactin receptor
 Clone: PRLR742
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Breast, placenta, liver or pancreas.
 Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.
 Status: RUO

Catalog Number	Volume
RA0270-C.1	0.1 ml
RA0270-C.5	0.5 ml

Prostate Specific Antigen (PSA); Clone A67-B/E3 (Concentrate)

Species: Mouse
 Immunogen: PSA from human sperm plasma
 Clone: A67-B/E3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: PC12 cells or normal prostate or prostate carcinoma.
 Specificity: Recognizes a single protein of 33-34kDa, identified as the prostate specific antigen (PSA). This MAb is highly specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues.
 Status: RUO

Catalog Number	Volume
RA0008-C.1	0.1 ml
RA0008-C.5	0.5 ml



Prostate Specific Antigen (PSA); Clone KLK3/801 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KLK3 protein
 Clone: KLK3/801
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: PC12 cells or normal prostate or prostate carcinoma.
 Specificity: Recognizes a single protein of 33-34kDa, identified as the prostate specific antigen (PSA). This MAb is highly specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues.
 Status: RUO

Catalog Number	Volume
RA0009-C.1	0.1 ml
RA0009-C.5	0.5 ml

pS2 / pNR-2 / Trefoil Factor 1 (Estrogen-Regulated Protein); Clone GE2 (R47/94) (Concentrate)

Species: Mouse
 Immunogen: Synthetic peptide of 28 amino acid residues corresponding to CFDDTVRGVPWCFYPNTIDVPPEEECEF (aa 57-84) from the C-terminus of human pS2.
 Clone: GE2; same as R47/94
 Isotype: IgG1, kappa
 Species Reactivity: Human and Cynomolgus Monkey. Others not known.
 Positive Control: Spent medium of MCF-7 cells, treated with estrogen. Normal stomach. About 60% of breast carcinomas are positive for pS2, especially those that are also positive for estrogen and/or progesterone receptor.
 Specificity: This antibody recognizes a polypeptide of 6.5kDa, identified as pS2 estrogen-regulated protein. Its epitope is localized between aa 57-84 of human pS2 protein.
 Status: RUO

Catalog Number	Volume
RA0300-C.1	0.1 ml
RA0300-C.5	0.5 ml

pS2 / pNR-2 / Trefoil Factor 1 (Estrogen-Regulated Protein); Clone TFF1/1091 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide from the C-terminus of human TFF1 protein.
 Clone: TFF1/1091
 Isotype: IgG1, kappa
 Species Reactivity: Human and Monkey. Others not known.
 Positive Control: Spent medium of MCF-7 cells, treated with estrogen. Normal stomach. About 60% of breast carcinomas are positive for pS2, especially those that are also positive for estrogen and/or progesterone receptor.
 Specificity: This antibody recognizes a polypeptide of 6.5kDa, identified as pS2 estrogen-regulated protein. Its epitope is located in the C-terminus of the human pS2 protein.
 Status: RUO

Catalog Number	Volume
RA0452-C.1	0.1 ml
RA0452-C.5	0.5 ml
RA0452-C1	1 ml

Renal Cell Carcinoma / gp200 (Carbonic Anhydrase IX); Clone 66.4.C2 (PN-15) (Concentrate)

Species: Mouse
 Immunogen: Microsomal fraction of human renal cortical tissue homogenate
 Clone: 66.4.C2 (PN-15)
 Isotype: IgG2b, kappa
 Species Reactivity: Human and Horse. Others not known.
 Positive Control: Normal kidney or renal cell carcinoma.
 Specificity: Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200). Its epitope resides in the carbohydrate domain of gp200. It shows no significant cross-reactivity with other carbohydrate determinants, such as the Lewis blood group antigens, epithelial membrane antigen, HMFG, and AB blood group antigens.
 Status: RUO

Catalog Number	Volume
RA0026-C.1	0.1 ml
RA0026-C.5	0.5 ml

Renal Cell Carcinoma / gp200 (Carbonic Anhydrase IX); Clone CA9/781 (Concentrate)

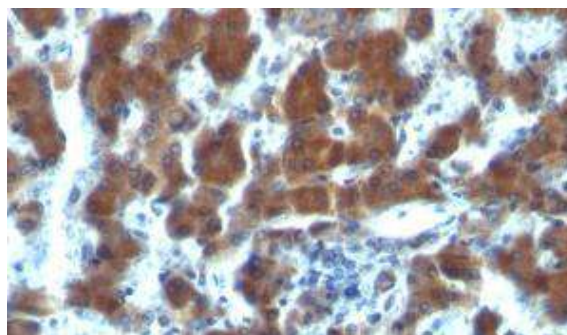
Species: Mouse
 Immunogen: Recombinant human CA9 protein
 Clone: CA9/781
 Isotype: IgG2b, kappa
 Species Reactivity: Human and Horse. Others not known.
 Positive Control: Normal kidney or renal cell carcinoma
 Specificity: Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200).
 Status: RUO

Catalog Number	Volume
RA0027-C.1	0.1 ml
RA0027-C.5	0.5 ml

Retinol Binding Protein-1 (RBP1); Clone G4E4 (Concentrate)

Species: Mouse
 Immunogen: Retinol binding protein-1 purified from human plasma
 Clone: G4E4
 Isotype: IgG1, kappa
 Species Reactivity: Human, Chimpanzee, Monkey, Goat, Rabbit, Rat, and Mouse. Others not tested.
 Positive Control: Liver
 Specificity: This antibody recognizes an epitope within the 74-182 C-terminal sequence (11kD peptide fragment) of human serum Retinol Binding Protein 1 (RBP1).
 Status: RUO

Catalog Number	Volume
RA0446-C.1	0.1 ml
RA0446-C.5	0.5 ml
RA0446-C1	1 ml



Retinol Binding Protein-1 (RBP1); Clone RBP/872 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human retinol binding protein-1 (RBP1)
 Clone: RBP/872
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Goat, Rabbit, Rat, and Mouse. Others not tested.
 Positive Control: Liver
 Specificity: This antibody recognizes a protein of 21kDa-25kDa, identified as retinol binding protein-1 (RBP1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0447-C.1	0.1 ml
RA0447-C.5	0.5 ml
RA0447-C1	1 ml

S100 (Astrocyte Marker); Clone 4C4.9 (Concentrate)

Species: Mouse
 Immunogen: Purified bovine brain S100 protein
 Clone: 4C4.9
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Mouse, Rat, Cow. Others not known.
 Positive Control: Brain and Melanoma.
 Specificity: S-100 protein has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, as well as in glial cells. Neoplasms derived from these cells also express S-100 protein, albeit non-uniformly. A large number of well-differentiated tumors of the salivary gland, adipose and cartilaginous tissue, and Schwann cell-derived tumors express S-100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S-100 protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0285-C.1	0.1 ml
RA0285-C.5	0.5 ml

S100A7 / HID5 / Psoriasin (Proliferative Epithelial Cell Marker); Clone S100A7/542 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human S100A7 protein
 Clone: S100A7/542
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7 cells. Breast carcinoma.
 Specificity: This antibody recognizes a protein of 11kDa, identified as S100A7. This protein is markedly over-expressed in the skin lesions of psoriatic patients. This protein is found to have elevated expression in abnormally differentiating primary keratinocytes and in various carcinomas, including ductal carcinoma in situ. It may serve as a marker of abnormally proliferative epithelia.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0286-C.1	0.1 ml
RA0286-C.5	0.5 ml

Secretory Component / ECM1; Clone ECM1/792 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human ECM1 protein
 Clone: ECM1/792
 Isotype: IgG1, kappa
 Species Reactivity: Human and Rat. Others not known.
 Positive Control: Stomach, lung, or breast tumor.
 Specificity: This antibody reacts with a reduction-resistant epitope present in both free and SIgA bound Secretory Component. It does not react with the cell lines lacking Secretory Component.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0106-C.1	0.1 ml
RA0106-C.5	0.5 ml

Secretory Component / ECM1; Clone SC05 (Concentrate)

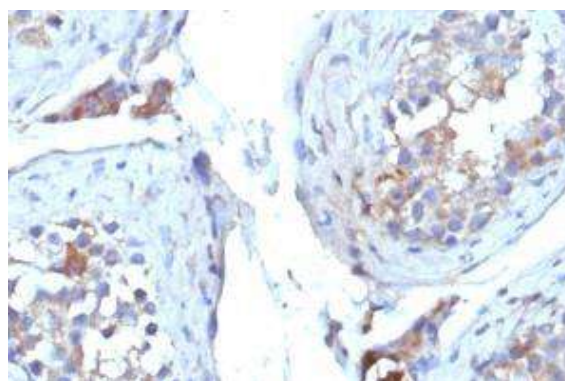
Species: Mouse
 Immunogen: Secretory Component protein isolated from human colostrum
 Clone: SC05
 Isotype: IgG1, kappa
 Species Reactivity: Human and Rat. Others not known.
 Positive Control: Stomach, lung, or breast tumor.
 Specificity: This antibody reacts with a reduction-resistant epitope present in both free and SIgA bound Secretory Component. It does not react with the cell lines lacking Secretory Component.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0105-C.1	0.1 ml
RA0105-C.5	0.5 ml

Sex Hormone Binding Globulin (SHBG); Clone SHBG/245 (Concentrate)

Species: Mouse
 Immunogen: Recombinant full-length human SHBG protein
 Clone: SHBG/245
 Isotype: IgG
 Species Reactivity: Human. Others not known.
 Positive Control: Liver, Placenta, or Testis.
 Specificity: This antibody recognizes a protein of 45kDa, identified as SHBG.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0449-C.1	0.1 ml
RA0449-C.5	0.5 ml
RA0449-C1	1 ml



Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker); Clone ID8 (Concentrate)

Species: Mouse
Immunogen: Human uterus extract
Clone: D8
Isotype: IgG1, kappa
Species Reactivity: Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig and Chicken. Others not known.
Positive Control: Uterus or normal breast.
Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0229-C.1	0.1 ml
RA0229-C.5	0.5 ml

Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker); Clone MYH11/923 (Concentrate)

Species: Mouse
Immunogen: Recombinant human MYH11 protein
Clone: MYH11/923
Isotype: IgG1, kappa
Species Reactivity: Human. Predicted to have broad species reactivity.
Positive Control: Uterus or normal breast.
Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0230-C.1	0.1 ml
RA0230-C.5	0.5 ml

Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker); Clone SMMS-1 (Concentrate)

Species: Mouse
Immunogen: Human uterus extract
Clone: SMMS-1
Isotype: IgG1, kappa
Species Reactivity: Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig and Chicken. Others not known.
Positive Control: Uterus or normal breast.
Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0228-C.1	0.1 ml
RA0228-C.5	0.5 ml

SOX10 (Melanoma Marker); Clone SOX10/991 (Concentrate)

Species: Mouse
Immunogen: Recombinant human SOX10 protein fragment (aa115-269) (exact sequence is proprietary).
Clone: SOX10/991
Isotype: Mouse / IgG2b, kappa
Species Reactivity: Reacts with human and mouse. Others not known.
Positive Control: HepG2 cells. Melanomas, breast carcinomas, gliomas.
Specificity: Recognizes a protein of ~55kDa, identified as SOX10. This monoclonal antibody is highly specific and does not cross-react with other members of the SOX-family.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0594-C.1	0.1 ml
RA0594-C.5	0.5 ml
RA0594-C1	1 ml

SUMO-1; Clone SM1/495 (Concentrate)

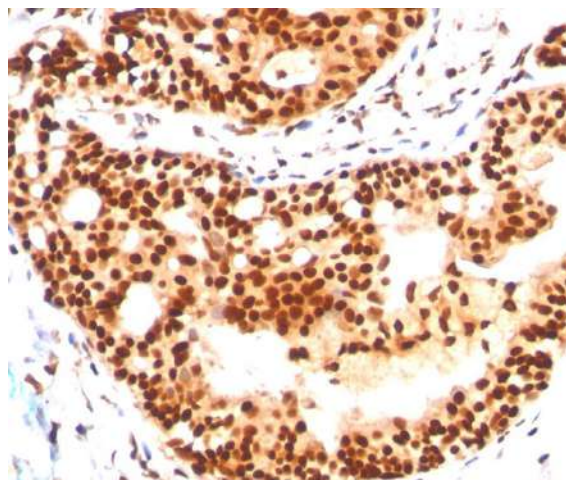
Species: Mouse
Immunogen: Recombinant human SUMO1 protein
Clone: SM1/495
Isotype: IgG1, kappa
Species Reactivity: Human. Shows broad species reactivity.
Positive Control: Breast carcinoma.
Specificity: This antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0332-C.1	0.1 ml
RA0332-C.5	0.5 ml

SUMO-2/3; Clone SM23/496 (Concentrate)

Species: Mouse
Immunogen: Recombinant human SUMO2 protein
Clone: SM23/496
Isotype: IgG1, kappa
Species Reactivity: Human. Shows broad species reactivity.
Positive Control: HeLa cells or breast carcinoma.
Specificity: This antibody reacts with both SUMO-2 and SUMO-3.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0295-C.1	0.1 ml
RA0295-C.5	0.5 ml



TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CA72/733 (Concentrate)

Species: Mouse

Immunogen: TAG-72 protein (B72.3 & CA72/733)

Clone: B72.3 & CA72/733

Isotype: IgG1, kappa (B72.3 & CA72/733)

Species Reactivity: Human, Cow, Dog, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0370-C.1	0.1 ml
RA0370-C.5	0.5 ml

TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CC49 (Concentrate)

Species: Mouse

Immunogen: TAG-72 protein (B72.3 & CC49)

Clone: B72.3 & CC49

Isotype: IgG1, kappa (B72.3 & CC49)

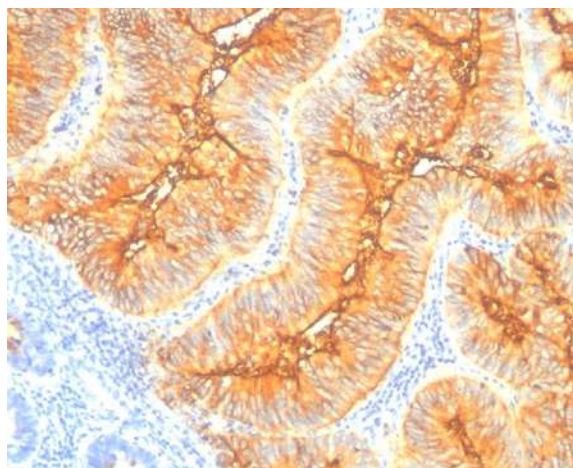
Species Reactivity: Human, Cow, Dog, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0371-C.1	0.1 ml
RA0371-C.5	0.5 ml

**TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 (Concentrate)**

Species: Mouse

Immunogen: Membrane-enriched fraction of a human breast carcinoma liver metastasis

Clone: B72.3

Isotype: IgG1, kappa

Species Reactivity: Human, Cow, Dog, Hamster, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0367-C.1	0.1 ml
RA0367-C.5	0.5 ml

TAG-72 (Tumor-Associated Glycoprotein); Clone CA72/733 (Concentrate)

Species: Mouse

Immunogen: Recombinant human TAG-72 protein

Clone: CA72/733

Isotype: IgG1, kappa

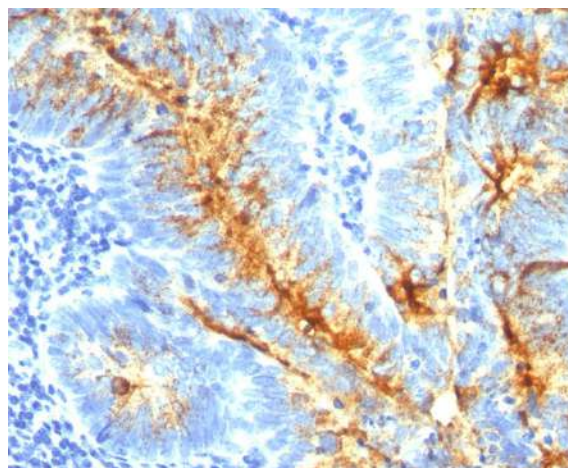
Species Reactivity: Human, Cow, Dog, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0369-C.1	0.1 ml
RA0369-C.5	0.5 ml



TAG-72 (Tumor-Associated Glycoprotein); Clone CC49 (Concentrate)

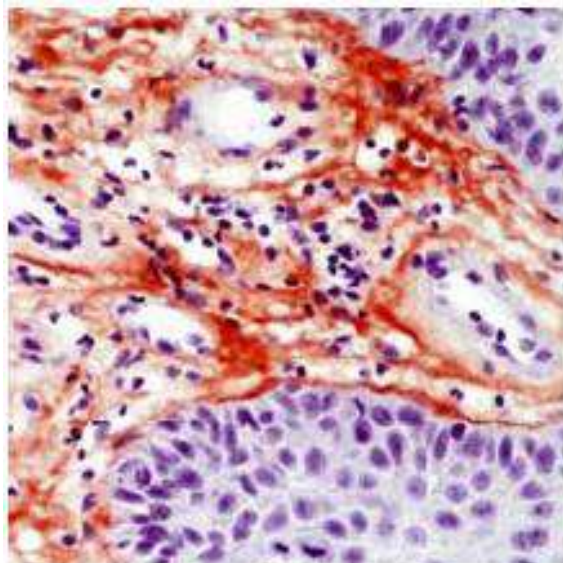
Species: Mouse
 Immunogen: Purified TAG-72 protein
 Clone: CC49
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow, Dog, and Rat. Others not known.
 Positive Control: Jurkat cells, breast or lung carcinoma.
 Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0368-C.1	0.1 ml
RA0368-C.5	0.5 ml

Tenascin C (Stromal Marker For Epithelial Malignancy); Clone T2H5 (Concentrate)

Species: Mouse
 Immunogen: Human breast carcinoma
 Clone: T2H5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Extracellular matrix in tonsil and blood vessels. Stroma of many tumors such as breast, squamous cell, and lung carcinomas. Staining of normal fibroblasts serves as internal positive control.
 Specificity: In Western blotting, it reacts with two bands at ~MW of 210kDa and 300kDa, identified as two isoforms of Tenascin C. Specificity of this monoclonal antibody is validated by sequential immunoprecipitation with a polyclonal antibody against Tenascin C.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0135-C.1	0.1 ml
RA0135-C.5	0.5 ml

**TGF-alpha (Transforming Growth Factor alpha); Clone 1E8-G6 (Concentrate)**

Species: Mouse
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF α .
 Clone: 1E8-G6
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0305-C.1	0.1 ml
RA0305-C.5	0.5 ml

TGF-alpha (Transforming Growth Factor alpha); Clone P/T1 (Concentrate)

Species: Mouse
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF α .
 Clone: P/T1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0307-C.1	0.1 ml
RA0307-C.5	0.5 ml

TGF-alpha (Transforming Growth Factor alpha); Clone TG86 & P/T1 (Concentrate)

Species: Mouse
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF α (TG86 & P/T1).
 Clone: TG86 & P/T1
 Isotype: IgG1, kappa (TG86 & P/T1)
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0308-C.1	0.1 ml
RA0308-C.5	0.5 ml

TGF-alpha (Transforming Growth Factor alpha); Clone TG86 (Concentrate)

Species: Mouse
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF α .
 Clone: TG86
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0306-C.1	0.1 ml
RA0306-C.5	0.5 ml

Thymidylate Synthase (5-FU Resistance Marker); Clone TMS715 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human thymidylate synthase
 Clone: TMS715
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.
 Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0327-C.1	0.1 ml
RA0327-C.5	0.5 ml

Thymidylate Synthase (5-FU Resistance Marker); Clone TS106 & TMS715 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human thymidylate synthase (TS106 & TMS715)
 Clone: TS106 & TMS715
 Isotype: IgG1, kappa (TS106 & TMS715)
 Species Reactivity: Human. Others not known.
 Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.
 Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0328-C.1	0.1 ml
RA0328-C.5	0.5 ml

Thymidylate Synthase (5-FU Resistance Marker); Clone TS106 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human thymidylate synthase
 Clone: TS106
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.
 Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0326-C.1	0.1 ml
RA0326-C.5	0.5 ml

Thyroglobulin (Thyroidal Cell Marker); Clone 2H11 & 6E1 (Concentrate)

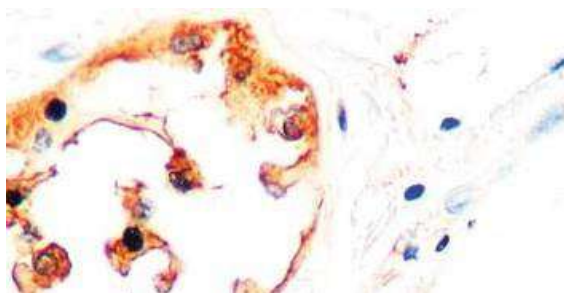
Species: Mouse
 Immunogen: Human thyroid follicular cells (2H11 & 6E1)
 Clone: 2H11 & 6E1
 Isotype: IgG1, kappa (2H11 & 6E1)
 Species Reactivity: Human, Mouse, Rat. Others not known.
 Positive Control: Thyroid
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0303-C.1	0.1 ml
RA0303-C.5	0.5 ml

Thyroglobulin (Thyroidal Cell Marker); Clone 2H11 (Concentrate)

Species: Mouse
 Immunogen: Human thyroid follicular cells
 Clone: 2H11
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat. Others not known.
 Positive Control: Thyroid
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0301-C.1	0.1 ml
RA0301-C.5	0.5 ml



Thyroglobulin (Thyroidal Cell Marker); Clone 6E1 (Concentrate)

Species: Mouse
 Immunogen: Human thyroid follicular cells
 Clone: 6E1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat. Others not known.
 Positive Control: Thyroid
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0302-C.1	0.1 ml
RA0302-C.5	0.5 ml

Thyroglobulin (Thyroidal Cell Marker); Clone TGB04 & TGB05 (Concentrate)

Species: Mouse
 Immunogen: Human thyroid follicular cells (TGB04 & TGB05)
 Clone: TGB04 & TGB05
 Isotype: IgG1, kappa (TGB04 & TGB05)
 Species Reactivity: Human, Mouse, Rat. Others not known.
 Positive Control: Thyroid
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0304-C.1	0.1 ml
RA0304-C.5	0.5 ml

TNF-alpha (Tumor Necrosis Factor alpha); Clone 4C6-H8 (Concentrate)

Species: Mouse
 Immunogen: A hexadecapeptide corresponding to amino acids 115-130 of human TNF-alpha, conjugated to thyroglobulin.
 Clone: 4C6-H8
 Isotype: IgM, kappa
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0314-C.1	0.1 ml
RA0314-C.5	0.5 ml

TNF-alpha (Tumor Necrosis Factor alpha); Clone P/T2 (Concentrate)

Species: Mouse
 Immunogen: A hexadecapeptide corresponding to amino acids 115-130 of human TNF-alpha, conjugated to thyroglobulin.
 Clone: P/T2
 Isotype: IgM, kappa
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0315-C.1	0.1 ml
RA0315-C.5	0.5 ml

TNF-alpha (Tumor Necrosis Factor alpha); Clone TNF706 & P/T2 (Concentrate)

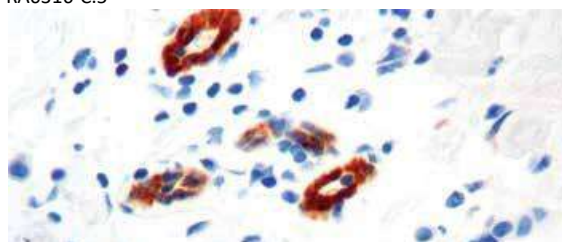
Species: Mouse
 Immunogen: Recombinant human TNF-alpha
 Clone: TNF706 & P/T2
 Isotype: IgM, kappa (TNF706 & P/T2)
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0317-C.1	0.1 ml
RA0317-C.5	0.5 ml

TNF-alpha (Tumor Necrosis Factor alpha); Clone TNF706 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TNF-alpha
 Clone: TNF706
 Isotype: IgM, kappa
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0316-C.1	0.1 ml
RA0316-C.5	0.5 ml



Topoisomerase (DNA) I, Mitochondrial (TOP1MT); Clone TOP1MT/488 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant full-length human TOP1MT protein.
 Clone: TOP1MT/488
 Isotype: IgG2b, kappa
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: A431 cells. Heart, skeletal muscle, brain, or fetal liver.
 Specificity: Recognizes Topoisomerase (DNA) I.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0520-C.1	0.1 ml
RA0520-C.5	0.5 ml
RA0520-C1	1 ml

TRAcP (Tartrate-Resistant Acid Phosphatase); Clone ACP5/1070 (Concentrate)

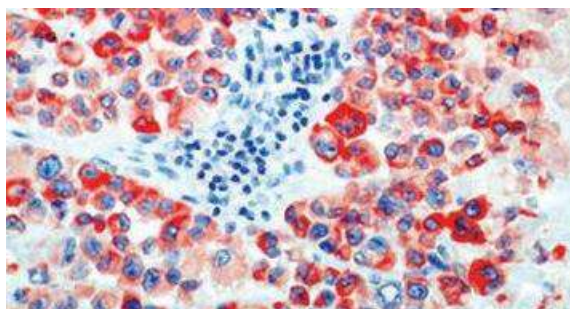
Species: Mouse
 Immunogen: Recombinant human ACP5 protein
 Clone: ACP5/1070
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Mouse, and Rat. Others not known.
 Positive Control: HepG2, 293T, K562 or RPMI-8226 Cells.
 Spleen from Hairy Cell Leukemia (HCL) patient.
 Specificity: This antibody recognizes a protein of 35kDa, which is identified as tartrate-resistant acid phosphatase (TRAcP). It exists as two isoforms (5a and 5b). This antibody reacts with both the isoforms. The anti-TRAcP antibody labels the cells of Hairy Cell Leukemia (HCL) with a high degree of sensitivity and specificity. Other cells stained with this antibody are tissue macrophages and osteoclasts.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0422-C.5	0.5 ml

Transgelin (SM22-alpha); Clone TAGLN/247 (Concentrate)

Species: Mouse
 Immunogen: Recombinant full-length human transgelin (TAGLN) protein.
 Clone: TAGLN/247
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow, Pig, Rabbit, and Mouse. Others not known.
 Positive Control: U-2 OS, Hs68 or WI 38 cells. Colon carcinoma.
 Specificity: This antibody recognizes a 22kDa protein, identified as Transgelin, also designated SM22-alpha. It may cross-react with SM22-beta.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0451-C.1	0.1 ml
RA0451-C.5	0.5 ml
RA0451-C1	1 ml

**TRIM29 (Lung Squamous Cell Carcinoma Marker); Clone TRIM29/1041 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human TRIM29 protein fragment (amino acids approximately 1-150)
 Clone: TRIM29/1041
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A431 cells. Tonsil or Squamous cell carcinoma.
 Specificity: This antibody recognizes a 66kDa protein, which is identified as Tripartite motif-containing protein 29 (TRIM29).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0454-C.1	0.1 ml
RA0454-C.5	0.5 ml
RA0454-C1	1 ml

TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone 8G7G3/1 & NX2.1/690 (Concentrate)

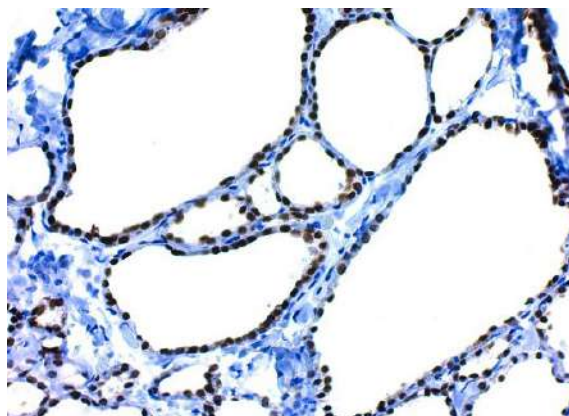
Species: Mouse
 Immunogen: Recombinant full length Rat TTF-1 protein (8G7G3/1); Recombinant TTF-1 protein (NX2.1/690)
 Clone: 8G7G3/1 & NX2.1/690
 Isotype: IgG1, kappa (8G7G3/1 & NX2.1/690)
 Species Reactivity: Human, Mouse, and Rat. Others not known.
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells.
 Normal thyroid or lung.
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0313-C.1	0.1 ml
RA0313-C.5	0.5 ml

TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone 8G7G3/1 (Concentrate)

Species: Mouse
 Immunogen: Recombinant full length Rat TTF-1 protein
 Clone: 8G7G3/1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, and Rat. Shows a broad species reactivity.
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells.
 Normal thyroid or lung.
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0310-C.1	0.1 ml
RA0310-C.5	0.5 ml



**TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker)
Clone NX2.1/690 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant TTF-1 protein
 Clone: NX2.1/690
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, and Rat. Others not known.
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells.
 Normal thyroid or lung.
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0312-C.1	0.1 ml
RA0312-C.5	0.5 ml

**Tubulin-alpha (Microtubule Marker); Clone TU-02
(Concentrate)**

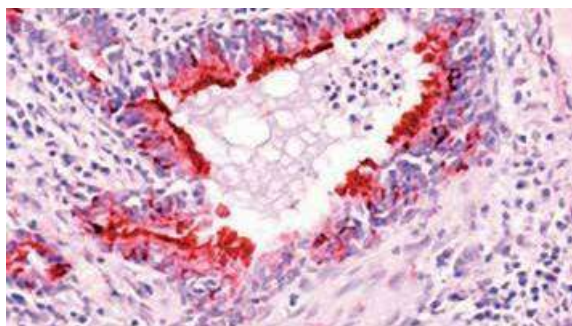
Species: Mouse
 Immunogen: Full length native protein corresponding to Pig alpha-tubulin
 Clone: TU-02
 Isotype: IgM, kappa
 Species Reactivity: Human, Pig, Mouse, and Rat. Others not known.
 Positive Control: A431, HeLa or NIH/3T3 cells. Colon tissue.
 Specificity: This antibody recognizes an epitope on the N-terminal structural domain of alpha-tubulin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0324-C.1	0.1 ml
RA0324-C.5	0.5 ml

**Tubulin-alpha (Microtubule Marker); Clone TU-16
(Concentrate)**

Species: Mouse
 Immunogen: Full length native protein corresponding to Pig alpha-tubulin.
 Clone: TU-16
 Isotype: IgM, kappa
 Species Reactivity: Human, Pig, Cow, Mouse, Rat, Hamster, Chicken, and many others.
 Positive Control: A431, HeLa, Raji, or NIH/3T3 cells. Colon tissue.
 Specificity: This antibody recognizes an epitope of alpha-tubulin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0325-C.1	0.1 ml
RA0325-C.5	0.5 ml

**Tumor Endothelial Marker 8 (TEM8) / Anthrax Toxin
Receptor 1; Clone TEM8/589 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human TEM8 protein
 Clone: TEM8/589
 Isotype: IgG1, kappa
 Species Reactivity: Human, Non-human Primates, Dog, and Rabbit. Others not known.
 Positive Control: P23 cells. Colon or breast carcinoma.
 Specificity: This antibody recognizes a protein of ~63kDa, identified as Tumor Endothelial Marker 8 (TEM8).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0365-C.1	0.1 ml
RA0365-C.5	0.5 ml

**Tyrosinase (Melanoma Marker); Clone OCA1/812
(Concentrate)**

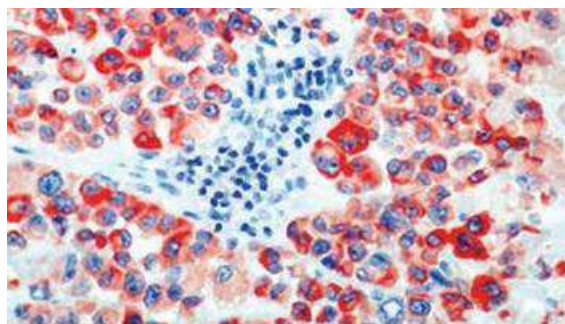
Species: Mouse
 Immunogen: Recombinant human tyrosinase protein
 Clone: OCA1/812
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.
 Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0330-C.1	0.1 ml
RA0330-C.5	0.5 ml

**Tyrosinase (Melanoma Marker); Clone T311 &
OCA1/812 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human tyrosinase protein (T311 & OCA1/812)
 Clone: T311 & OCA1/812
 Isotype: IgG2a, kappa (T311 & OCA1/812)
 Species Reactivity: Human. Others not known.
 Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.
 Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0331-C.1	0.1 ml
RA0331-C.5	0.5 ml



Tyrosinase (Melanoma Marker); Clone T311 (Concentrate)

Species: Mouse

Immunogen: Recombinant tyrosinase protein

Clone: T311

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.

Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0329-C.1	0.1 ml
RA0329-C.5	0.5 ml

Vimentin (Mesenchymal Cell Marker); Clone LN6 (Concentrate)

Species: Mouse

Immunogen: Human thymic nuclear extract

Clone: LN6

Isotype: IgM

Species Reactivity: Human, Cat, Cow, Pig, Rat, Rabbit, Mouse, and Sheep. Others not known.

Positive Control: Jurkat cells, Sarcomas, Melanomas.

Specificity: This antibody reacts with a 58kDa protein identified as vimentin. It reacts with a non-hematopoietic epitope of vimentin and shows no cross-reaction with other closely related intermediate filament proteins (IFP's) such as desmin, keratin, neurofilament, and glial fibrillary acid protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0338-C.1	0.1 ml
RA0338-C.5	0.5 ml

Vimentin (Mesenchymal Cell Marker); Clone VM452 (Concentrate)

Species: Mouse

Immunogen: Human vimentin recombinant protein

Clone: VM452

Isotype: IgG1

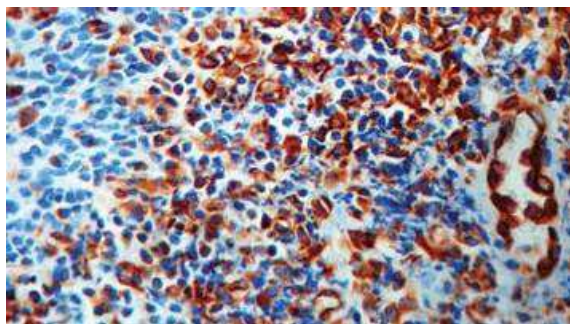
Species Reactivity: Human, Cow, Dog, Cat, Pig, Goat and Chicken. Does not react with Mouse and Rat. Others not known.

Positive Control: Jurkat cells, Sarcomas, Melanomas.

Specificity: This antibody reacts with a 58kDa protein identified as vimentin. It shows no cross-reaction with other closely related intermediate filament proteins (IFP's) such as desmin, keratin, neurofilament, and glial fibrillary acid protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0337-C.1	0.1 ml
RA0337-C.5	0.5 ml

**von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone 3E2D10 & VWF635 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human vWF fragment (3E2D10 & VWF635).

Clone: 3E2D10 & VWF635

Isotype: IgG1, kappa (3E2D10 & VWF635)

Species Reactivity: Human. Others not known.

Positive Control: HUVEC or Tonsil.

Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0341-C.1	0.1 ml
RA0341-C.5	0.5 ml

von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone 3E2D10 (Concentrate)

Species: Mouse

Immunogen: Recombinant human vWF fragment spanning aa 845-949.

Clone: 3E2D10

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: HUVEC or Tonsil.

Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0339-C.1	0.1 ml
RA0339-C.5	0.5 ml

von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone IIIIE2.34 (Concentrate)

Species: Mouse

Immunogen: Recombinant human vWF fragment spanning aa 845-949

Clone: IIIIE2.34

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: HUVEC or Tonsil.

Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0342-C.1	0.1 ml
RA0342-C.5	0.5 ml

von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone VWF635 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human vWF fragment.
 Clone: VWF635
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HUVEC or Tonsil.
 Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0340-C.1	0.1 ml
RA0340-C.5	0.5 ml

Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker); Clone 6F-H2 (Concentrate)

Species: Mouse
 Immunogen: Recombinant protein corresponding to residues 1-181 of human WT1.
 Clone: 6F-H2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: K562 cells, Wilm's Tumor, or fetal kidney.
 Specificity: Recognizes a 47-55kDa tumor suppressor protein, identified as Wilm's Tumor (WT1) protein. This antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids, frequently found in subsets of sporadic Wilm's tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0343-C.1	0.1 ml
RA0343-C.5	0.5 ml

Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker); Clone WMT/857 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human WT1 protein
 Clone: WMT/857
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: K562 cells, Wilm's Tumor, or fetal kidney.
 Specificity: Recognizes a 47-55kDa tumor suppressor protein, identified as Wilm's Tumor (WT1) protein. This antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids, frequently found in subsets of sporadic Wilm's tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0344-C.1	0.1 ml
RA0344-C.5	0.5 ml

ZAP-70 (Chronic Lymphocytic Leukemia Marker); Clone ZAP70/528 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human ZAP-70 protein
 Clone: ZAP70/528
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat cells. Tonsil or lymph node.
 Specificity: This antibody recognizes a 70kDa protein identified as ZAP-70.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0453-C.1	0.1 ml
RA0453-C.5	0.5 ml
RA0453-C1	1 ml

ZAP-70 [Zeta-chain (TCR) Associated Protein Kinase 70kDa]; Clone 2F3.2 (Concentrate)

Species: Mouse
 Immunogen: Recombinant ZAP-70 protein including residues 1-254 and encompassing the SH2 domains of human ZAP-70.
 Clone: 2F3.2
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat cells. Tonsil or lymph node.
 Specificity: Recognizes human ZAP-70; does not recognize murine ZAP-70.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0345-C.1	0.1 ml
RA0345-C.5	0.5 ml

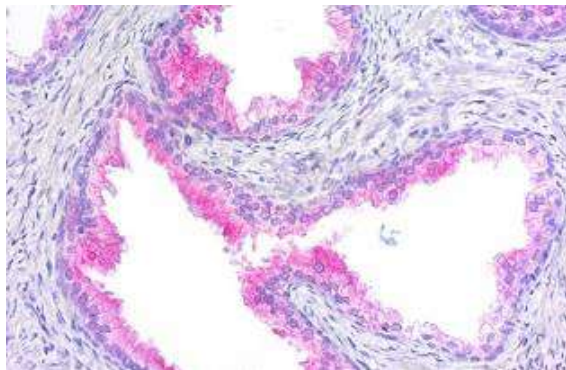
Research Polyclonal Concentrate

Regulatory Status: RUO

AMACR / p504S (Prostate Cancer Marker); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: A synthetic peptide from human AMACR protein
 Clone: Rabbit Polyclonal
 Isotype: IgG
 Species Reactivity: Human. Others not known.
 Positive Control: HEK cells or Prostate Adenocarcinoma.
 Specificity: This antibody recognizes a protein of 54kDa, which is identified as AMACR, also known as p504S.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0354-C.1	0.1 ml
RA0354-C.5	0.5 ml



beta-Catenin (p120); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: A synthetic peptide from the middle of beta-Catenin (p120) protein
 Clone: Polyclonal
 Isotype: IgG
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.
 Specificity: Immunostaining of beta-catenin and E-cadherin is helpful in the accurate identification of ductal and lobular neoplasms, including a distinction between low-grade ductal carcinoma in situ (DCIS) and lobular carcinoma. Additionally, some rectal and gastric adenocarcinomas demonstrate diffuse cytoplasmic beta-catenin staining and a lack of membranous staining, mimicking the staining pattern observed with lobular breast carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0104-C.1	0.1 ml
RA0104-C.5	0.5 ml

CD8A (Cytotoxic & Suppressor T-Cell Marker); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: Human CD8 recombinant fragment corresponding to aa 200-250
 Clone: Polyclonal
 Isotype: IgG
 Species Reactivity: Human. Others not known.
 Positive Control: HuT78 or hPBL. Tonsil.
 Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0044-C.1	0.1 ml
RA0044-C.5	0.5 ml

Helicobacter Pylori; Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: Total sonicate of Helicobacter pylori
 Clone: Rabbit Polyclonal
 Isotype: IgG
 Species Reactivity: Helicobacter pylori
 Positive Control: Helicobacter pylori infected stomach biopsy.
 Specificity: This antibody stains the individual H. pylori bacterium when it presents on the surface of the epithelium or in the cytoplasm of the epithelial cells in biopsy tissue sections from the antrum and body of the stomach.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0379-C.1	0.1 ml
RA0379-C.5	0.5 ml

Napsin A (Lung Adenocarcinoma Marker); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: A synthetic peptide (RFDPKASSSQANGTKFAIQYGT) of human Napsin-A.
 Clone: Rabbit Polyclonal
 Isotype: IgG
 Species Reactivity: Human. Others not known.
 Positive Control: Lung adenocarcinoma.
 Specificity: Immunohistochemical studies revealed high expression levels of napsin A in human lung and kidney, but low expression in spleen. Napsin A is expressed in type II pneumocytes and in adenocarcinomas of lung.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0348-C.1	0.1 ml
RA0348-C.5	0.5 ml

p40 (deltaNp63) (Squamous, Basal, or Myoepithelial Cell Marker); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: A synthetic peptide (ENNAQTQFSEPQY) corresponding to aa 5-17 of human p40
 Clone: Rabbit Polyclonal
 Isotype: IgG
 Species Reactivity: Human, Mouse, Rat, and Cow. Others not known.
 Positive Control: HEK293 cells, Prostate Carcinoma, or Lung Squamous Cell Carcinoma.
 Specificity: p40 (p63 delta) is a marker recently determined to be highly specific for squamous basal cells in the immunohistochemistry (IHC) application.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0346-C.1	0.1 ml
RA0346-C.5	0.5 ml

TIMP-3 (Tissue Inhibitor of Metalloproteinase-3); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: Recombinant fragment corresponding to Human TIMP3 aa 175-211
 Clone: Rabbit polyclonal
 Isotype: IgG
 Species Reactivity: Human, Mouse, Rat, Horse, Cow, and Dog. Others not known.
 Positive Control: Placenta or breast carcinoma.
 Specificity: The amino acid sequence (aa 175-211) used as the immunogen for anti-TIMP3 is 100% homologous in human, cow, dog and horse, and 94% homologous in mouse and rat.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0309-C.1	0.1 ml
RA0309-C.5	0.5 ml

Diagnostic Antibody

Monoclonal Ready-to-Use

Regulatory Status: IVD

Actin, Alpha-Smooth Muscle; Clone 1A4 (Ready-To-Use)

Species: Mouse Monoclonal

Clone: 1A4

Isotype: IgG2a,k

Species Reactivity: Human, Baboon, Cow, Rabbit, Mouse, Rat, Chicken.

Positive Control: Blood vessels

Specificity: This antibody recognizes the α -smooth muscle form of actin. It shows no cross reaction with actin from fibroblasts (b- and g-cytoplasmic), striated muscle (a-sarcometric), and myocardium (a-myocardial). Its epitope is composed of the acetyl group and the first 4 amino acids on the N-terminal end of the peptidic chain of α -smooth actin. Histo-Line's 1A4 stains smooth muscle cells in vessel walls, gut wall, and myometrium. Myoepithelial cells in breast and salivary gland are also stained as they also contain this actin.

Catalog Number	Volume
A00002-0002	2 ml
A00002-0007	7 ml
A00002-0025	25 ml

Actin, Muscle Specific; Clone HHF35 (Ready-To-Use)

Species: Mouse Monoclonal

Clone: HHF35

Isotype: IgG1, kappa

MW: 42kD

Species Reactivity: Human

Positive Control: Skeletal or cardiac muscle.

Specificity: This antibody is specific to α and γ specific actin isomers from skeletal, cardiac and smooth muscle but does not recognize β and non-smooth muscle γ actin isomers. In western blot, HHF35 detects a 42kD protein extract from skeletal muscle but not from epithelial cell lines.

Catalog Number	Volume
A00001-0002	2 ml
A00001-0007	7 ml
A00001-0025	25 ml

Bcl-2; Clone 100/D5 (Ready-To-Use)

Species: Mouse

Clone: 100/D5

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human, Monkey. Others not tested.

Positive Control Tonsil.

Cellular Localization: Cytoplasmic & Cell Membrane.

Specificity: Human Bcl-2 α is a 239 amino acid (aa) protein and human Bcl-2 β is a 205 aa protein. The 100/D5 antibody [also known as clone Bcl-2/100 (Kren, 2004, Kaur, 2004)] recognizes both Bcl-2 isoforms (Pezzela et al, 1990).

Catalog Number	Volume
A00119-0002	2 ml
A00119-0007	7 ml
A00119-0025	25 ml

Bcl-2; Clone 124 (Ready-To-Use)

Species: Mouse

Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein

Clone: 124

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.

Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 α oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

Catalog Number	Volume
A00004-0002	2 ml
A00004-0007	7 ml
A00004-0025	25 ml

Bcl-6 (Follicular Lymphoma Marker); Clone PG-B6p (Ready-To-Use)

Species: Mouse Monoclonal

Clone: PG-B6p

Isotype: IgG1, kappa

Species Reactivity: Human, rabbit, rat, swine, calf, and lamb.

Positive Control: Tonsil

Cellular Localization: Nuclear

Specificity: In normal tonsil the antibody reacts with the nuclei of centroblasts and centrocytes in germinal centers. No reactivity is observed with other germinal center cells, e.g. plasma cells, macrophages, or follicular dendritic cells. Approximately 10% of germinal center T cells are stained with the antibody. The staining pattern of normal spleen B and T cell compartments are similar to that of tonsil. A faint nuclear staining is observed in squamous epithelia in the tonsil, thymus, and skin. In tumor cells the antibody shows strong nuclear labelling of Bcl-6 protein in follicular lymphomas, diffuse large B cell lymphomas, Burkitt's lymphomas, and nodular, lymphocyte-predominant Hodgkin's disease.

Catalog Number	Volume
A00077-0002	2 ml
A00077-0007	7 ml
A00077-0025	25 ml

CA15-3 (Ready-To-Use)

Species: Mouse Monoclonal

Isotype: IgG1

Species Reactivity: Human

Positive Control: Human Breast

Specificity: Human Breast Tumor Antigen (CA15-3). No cross-reactivity with Human AFP, CEA, PAP, PSA, CA19-9, or CA125.

Catalog Number	Volume
A00078-0002	2 ml
A00078-0007	7 ml
A00078-0025	25 ml

CA19-9; Clone 121SLE (Ready-To-Use)

Species: Mouse
 Clone: 121SLE
 Isotype: IgM, Kappa
 Species Reactivity: Human
 Cellular Localization: Luminal surface and cytoplasm.
 Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewis structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewis and/or Lewis blood group antigens. In normal tissues, sialyl Lewis antigen is present in ductal epithelium of the breast, kidney, salivary gland, and sweat glands. Its expression is greatly enhanced in serum as well as in the majority of tumor cells in gastrointestinal (GI) carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas. Preoperative elevated CA19-9 levels in patients with stage I pancreatic carcinoma decrease to normal values following surgery. When used serially, CA19-9 can predict recurrence of disease prior to radiographic or clinical findings.

<u>Catalog Number</u>	<u>Volume</u>
A00107-0002	2 ml
A00107-0007	7 ml
A00107-0025	25 ml

Carcinoembryonic Antigen, Pan (CEA); Clone COL-1 (Ready-To-Use)

Species: Mouse
 Immunogen: BALB/c mice were injected with an extract of human colon carcinoma.
 Clone: COL-1
 Isotype: IgG1 Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Colon Adenocarcinoma.
 Specificity: This antibody labels the CEA-positive glycocalyx surface of gastrointestinal cells and is useful for the identification of colon carcinomas.

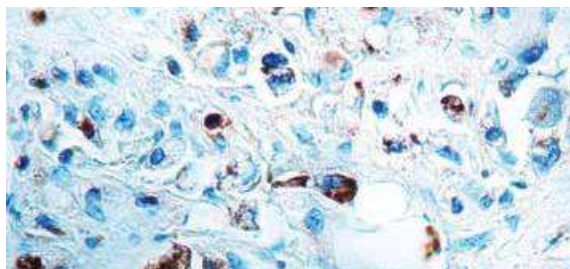
<u>Catalog Number</u>	<u>Volume</u>
A00135-0002	2 ml
A00135-0007	7 ml
A00135-0025	25 ml

Cathepsin D; Clone C5

Species: Mouse Monoclonal
 Clone: C5
 Isotype: IgG2b
 Species Reactivity: Human
 Positive Control: Macrophages in breast carcinoma

Specificity: Cathepsin D is synthesized as a 54 kD precursor which is proteolytically processed to an intermediate 48 kD single chain which matures into more stable 34 kD and 14 kD two chain

<u>Catalog Number</u>	<u>Volume</u>
A20046	2 ml
A00046	6 ml
A00046.0025	25 ml

**CD10, CALLA (Neutral Endopeptidase); Clone 56C6 (Ready-To-Use)**

Species: Mouse
 Immunogen: Recombinant human CD10 protein fragment.
 Clone: 56C6
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: Kidney, small intestine, or tonsil.
 Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphatic Leukemia Antigen (CALLA).

<u>Catalog Number</u>	<u>Volume</u>
A00091-0002	2 ml
A00091-0007	7 ml
A00091-0025	25 ml

CD15 / FUT4; Clone Leu-M1 (Ready-To-Use)

Species: Mouse
 Immunogen: U937 histiocytic cell line
 Clone: Leu-M1
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.

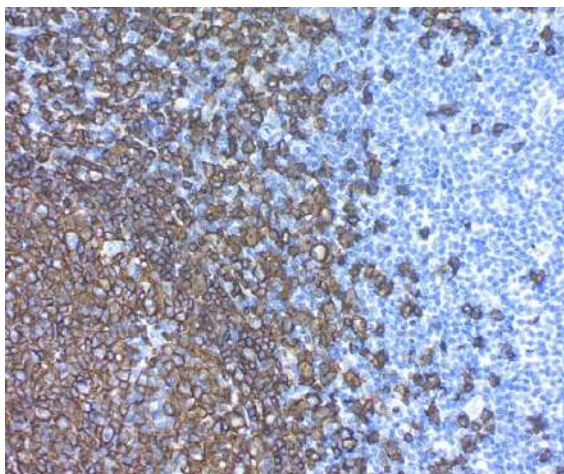
<u>Catalog Number</u>	<u>Volume</u>
A00151-0002	2 ml
A00151-0007	7 ml
A00151-0025	25 ml

CD20, B-Cell; Clone L26 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: L26
 Isotype: IgG2a,k
 MW: 33 kD and 30 kD
 Species Reactivity: Human
 Positive Control: Tonsil

Specificity: This antibody is specific to a 33 kD polypeptide present on the majority of B cells in peripheral blood and lymphoid tissue and also with a minor component of 30 kD. No reactivity with other haematopoietic cells has been observed.

<u>Catalog Number</u>	<u>Volume</u>
A00003-0002	2 ml
A00003-0007	7 ml
A00003-0025	25 ml



CD23, B-Cell; Clone MHM6 (Ready-To-Use)

Species: Mouse
 Clone: MHM6
 Isotype: IgG1, Kappa

Specificity: In lymphoid tissue, the antibody labels a variable proportion of mantle zone lymphocytes and a fraction of dendritic reticulum cells. In lymph nodes with progressive germinal centre transformation, the number and staining intensity of small follicular lymphocytes are increased. Essentially no staining is seen on splenic marginal zone lymphocytes.

The CD23 antigen is expressed on neoplastic cells from cases of B-Cell chronic lymphocytic leukemia and some cases of centroblastic/centrocytic lymphoma, but not in other types of lymphoid neoplasms.

<u>Catalog Number</u>	<u>Volume</u>
A20081	2 ml
A00081	6 ml
A00081.0025	25 ml

CD30, Ki-1 Antigen; Clone Ber-H2 (Ready-To-Use)

Species: Mouse
 Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage
 Clone: Ber-H2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Hodgkin's lymphoma
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This Mab distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas tumor cells of a majority of anaplastic large cell lymphomas, and by a varying proportion of activated T and B cells.

<u>Catalog Number</u>	<u>Volume</u>
A00016-0002	2 ml
A00016-0007	7 ml
A00016-0025	25 ml

CD31, Endothelial Cell; Clone JC/70A (Ready-To-Use)

Species: Mouse
 Immunogen: Membrane preparation of a spleen from a patient with hairy cell leukemia.
 Clone: JC/70A
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit.
 Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.

<u>Catalog Number</u>	<u>Volume</u>
A00009-0002	2 ml
A00009-0007	7 ml
A00009-0025	25 ml

CD31; Clone C31.3 (Ready-To-Use)

Species: Mouse
 Clone: C31.3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, Liver, Kidney.
 Specificity: The CD31 antibody (clone C31.3 or PECAM-1) is widely used as a pan-endothelial cell marker to demonstrate the presence of endothelial cells in tissue sections by immunohistochemistry. The CD31 (PECAM-1) antibody reacts with normal, benign, and malignant endothelium.

<u>Catalog Number</u>	<u>Volume</u>
A00126-0002	2 ml
A00126-0007	7 ml
A00126-0025	25 ml

CD31; Clone C31.7 (Ready-To-Use)

Species: Mouse
 Clone: C31.7
 Isotype: IgG1, Kappa
 Species Reactivity: Human.
 Cellular Localization: Primarily membrane.
 Specificity: This antibody recognizes a 100kDa glycoprotein in endothelial cells and 130kDa in platelets. This antibody reacts with endothelial cells in normal tissues and in benign and malignant proliferations. In cryostat sections and blood smears the antibody also stains megakaryocytes, platelets and occasionally plasma cells. It reacts weakly with mantle zone B cells, peripheral T cells, and neutrophils. Antibody to CD31 is of value in the study of benign and malignant vascular tumors. Staining for CD31 has also been used to measure angiogenesis, which reportedly predicts tumor recurrence.

<u>Catalog Number</u>	<u>Volume</u>
A00110-0002	2 ml
A00110-0007	7 ml
A00110-0025	25 ml

CD34, Endothelial Cell; Clone QBEnd/10 (Ready-To-Use)

Species: Mouse
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta
 Clone: QBEnd/10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog. Others not known.
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma
 Specificity: This antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.

<u>Catalog Number</u>	<u>Volume</u>
A00070-0002	2 ml
A00070-0007	7 ml
A00070-0025	25 ml

CD43 (T-Cell); Clone DF-T1 (Ready-To-Use)

Species: Mouse
 Immunogen: Myeloblastic KG1 cells
 Clone: DF-T1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].

<u>Catalog Number</u>	<u>Volume</u>
A00082-0002	2 ml
A00082-0007	7 ml
A00082-0025	25 ml

CD45, Leucocyte Common Antigen (LCA); Clones PD7/26 & 2B11 (Ready-To-Use)

Species: Mouse
 Immunogen: Isolated neoplastic cells from T-cell lymphoma (2B11); human peripheral blood lymphocytes maintained in T-cell growth factor (PD7/26).
 Clone: 2B11 & PD7/26
 Isotype: IgG1, kappa (2B11); IgG1, kappa (PD7/26).
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: This antibody recognizes the CD45 leukocyte common antigen (LCA) family.

<u>Catalog Number</u>	<u>Volume</u>
A00017-0002	2 ml
A00017-0007	7 ml
A00017-0025	25 ml

CD45; Clone 2B11 (Ready-To-Use)

Species: Mouse
 Clone: 2B11
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil.
 Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages / histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, Dendritic cells, medullary thymocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00129-0002	2 ml
A00129-0007	7 ml
A00129-0025	25 ml

CD45RA (LCA); Clone 158-4D3 (Ready-To-Use)

Species: Mouse
 Clone: 158-4D3
 Isotype: Mouse IgG2a, Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Tonsil, Spleen.
 Specificity: The CD45RA 158-4D3 antibody clone reacts with the ABC and BC isoforms (Schlossman et al, 1995). CD45RA has a molecular weight of 205-220 kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00123-0002	2 ml
A00123-0007	7 ml
A00123-0025	25 ml

CD45RB; Clone PD7/26 (Ready-To-Use)

Species: Mouse
 Clone: PD7/26
 Isotype: Mouse IgG1
 Species Reactivity: Human.
 Positive Control: Tonsil.
 Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages/histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, dendritic cells, medullary thymocytes. CD45RB is highly expressed on memory B cells and plasmablasts but not on naïve B cells, Langerhans cells and some T cells, B cells, monocytes, macrophages, granulocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00130-0002	2 ml
A00130-0007	7 ml
A00130-0025	25 ml

CD45RO, T-Cell; Clone UCHL1 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: UCHL1
 Isotype: IgG2a,k
 Species Reactivity: Human, Rhesus Monkey. Does not react with Rat.
 Positive Control: Tonsil or Lymph Node.

Specificity: This antibody reacts with a 180 kD glycoprotein of CD45 family, occurring on most thymocytes and activated T cells but only on the portion of the resting T cells. It reacts with most thymocytes, a subpopulation of resting cells within both the CD4 and CD8 subsets and mature activated T cells. This antibody shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Though this antibody is useful to identify T-cell lymphomas and leukemia, rare staining with B cell lymphomas reported.

<u>Catalog Number</u>	<u>Volume</u>
A00024-0002	2 ml
A00024-0007	7 ml
A00024-0025	25 ml

CD5 (Mantel Cell Lymphoma Marker); 4C7

Species: Mouse Monoclonal
 Clone: 4C7
 Isotype: IgG1
 Species Reactivity: Human

Specificity: This antibody recognizes a 67kD transmembrane protein, which is identified as CD5. The CD5 antigen is found on 95% of thymocytes and 72% of peripheral blood lymphocytes. In lymph nodes, the main reactivity is observed in T cells. CD5 is expressed by many T cell leukemia, lymphomas, and activated T cells. Occasionally, CD5 antigen is also expressed on a subset of B cells. Mantle cell lymphomas (same as diffuse centrocytic lymphomas) are CD5+ while the follicle center cell lymphoma are CD5-.

<u>Catalog Number</u>	<u>Volume</u>
A20090	2 ml
A00090	6 ml
A00090.0025	25 ml
A00090.050	50 ml

CD56; Clone 123C3 (Ready-To-Use)

Species: Mouse
 Clone: 123C3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, Neuroblastoma, Pancreatic Islet cells.
 Specificity: This antibody recognizes two proteins (185kDa & 145kDa), identified as two isoforms of neural cell adhesion molecule (NCAM/CD56). It is used as a tumor marker in various cancers such as NK lymphomas and Merkel cell carcinoma. NCAM is expressed on most neuroectodermal derived lines, tissues, and neoplasms such as retinoblastoma, medulloblastoma, astrocytoma, and neuroblastoma. It is also expressed on some mesodermally derived tumors such as rhabdomyosarcoma and also on natural killer cells.

<u>Catalog Number</u>	<u>Volume</u>
A00121-0002	2 ml
A00121-0007	7 ml
A00121-0025	25 ml

CD57 (HNK-1); Clone NK-1 (Ready-To-Use)

Species: Mouse
 Clone: NK-1
 Isotype: Mouse IgM, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, spleen, lymph node.
 Specificity: The NK1 antibody clone recognizes the glycoepitope referred to as both CD57 and HNK1.

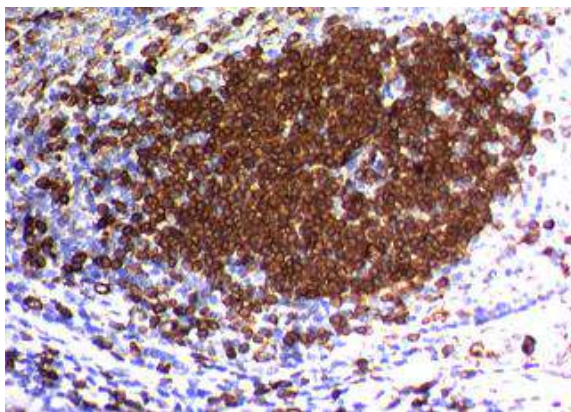
<u>Catalog Number</u>	<u>Volume</u>
A00117-0002	2 ml
A00117-0007	7 ml
A00117-0025	25 ml

CD74; Clone LN2 (Ready-To-Use)

Species: Mouse
 Clone: LN2
 Isotype: IgG1,k
 MW: 35 kD
 Species Reactivity: Human

Specificity: This antibody reacts with 35 kD antigen present on the nuclear membrane protein related to the invariant chain of the HLA-Dr antigen. This antibody reacts with the germinal center and mantle zone B lymphocytes, interdigitating histiocytes in T cell zones and mononuclear cells and Reed-Sternberg cells in Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
A00048-0002	2 ml
A00048-0007	7 ml
A00048-0025	25 ml

**CD75; Clone LN1**

Species: Mouse Monoclonal
 Clone: LN1
 Isotype: IgM,k
 MW: 45-85 kD
 Species Reactivity: Human

Specificity: This antibody reacts with 45-85 kD antigen present on the B cells derived from the germinal center. It reacts with the epithelial cells of breast, prostate, kidney, pancreas and lung.

<u>Catalog Number</u>	<u>Volume</u>
A20047	2 ml
A00047	6 ml
A00047.0025	25 ml

CDX2; Clone EP25 (Ready-To-Use)

Species: Rabbit
 Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2.
 Clone: EP25
 Isotype: Rabbit IgG
 Species Reactivity: Human
 Positive Control: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.
 Specificity: CDX-2 expression is restricted to nuclear staining in positive cells.

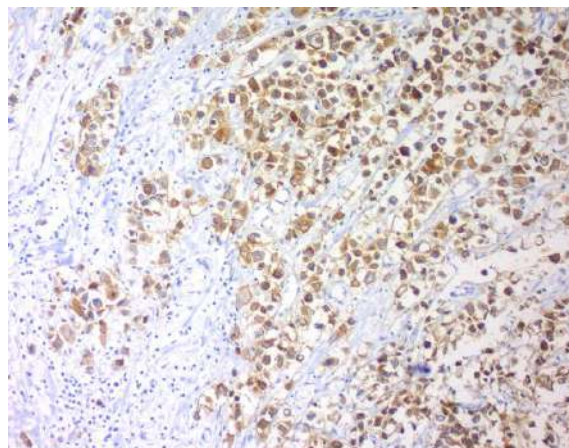
<u>Catalog Number</u>	<u>Volume</u>
A00147-0002	2 ml
A00147-0007	7 ml
A00147-0025	25 ml

c-erbB-2 Oncoprotein; Clone SP3

Species: Rabbit
 Clone: SP3
 Mol. Weight: 185kD
 Isotype: IgG
 Species Reactivity: Human. Others not tested.
 Positive Control: Breast carcinoma.
 Cellular Localization: Cell membrane.

Specificity: c-erbB-2 is a receptor tyrosine of the c-erbB family. It is closely related in structure to the epidermal growth factor receptor. C-erbB-2 oncoprotein is detectable in a proportion of breast and other adenocarcinomas, as well as transitional cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A20100	2 ml
A00100	6 ml
A00100.0025	25 ml



Chromogranin A; Clone A3

Species: Mouse Monoclonal
 Clone: A3
 Isotype: IgG2b,k
 Species Reactivity: Human

Specificity: Chromogranin A is a 439 amino acid protein present in secretory granules of a wide variety of endocrine cells and neurons. A positive staining is seen in the secretory granules of parathyroid, adrenal medulla, anterior pituitary gland and Langerhans islets of the pancreas. This antibody stains a variety of neuroendocrine tumors.

<u>Catalog Number</u>	<u>Volume</u>
A20097	2 ml
A00097	6 ml
A00097.0025	25 ml

Chromogranin A; Clones LK2H10 & PHE5 (Ready-To-Use)

Species: Mouse
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5).
 Clone: LK2H10 & PHE2
 Isotype: IgG1, Kappa (Both)
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Others not known
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00160-0002	2 ml
A00160-0007	7 ml
A00160-0025	25 ml

Cyclin D1; Clone DCS-6 (Ready-To-Use)

Species: Mouse
 Designation: Mouse Monoclonal
 Clone: DCS-6
 Isotype: IgG2a, Kappa
 Species Reactivity: Human.
 Cellular Localization: Nuclear.
 Positive Control: Mantle cell lymphoma and breast carcinoma.
 Specificity: The DCS-6 antibody is specific for cyclin D1, and has been key in elucidating the function and involvement of cyclin D1 in oncogenesis. Results with this antibody have helped to show that Cyclin D1 is over expressed in many different kinds of cancer. For example, about 50-70% of mantle cell lymphomas and 40% of breast carcinomas are cyclin D1.

<u>Catalog Number</u>	<u>Volume</u>
A00111-0002	2 ml
A00111-0007	7 ml
A00111-0025	25 ml

Cytokeratin (45, 56, 56.5); Clone MNF116

Species: Mouse Monoclonal
 Clone: MNF116
 Isotype: IgG1
 MW: 45, 46, 56.5 kD
 Species Reactivity: Human

Specificity: It shows a broad pattern of reactivity with human epithelial tissues from simple glandular epithelia to stratified squamous epithelia, like epidermis, mammary gland ducts and tracheal epithelium.

<u>Catalog Number</u>	<u>Volume</u>
A20096	2 ml
A00096	6 ml
A00096.0025	25 ml

Cytokeratin (Pan); Clone Cocktail (Ready-To-Use)

Specificity: This antibody cocktail reacts with keratins 4, 5, 6, 7, 8, 10, 13, 14, 15, 16, 18, and 19. Cytokeratin (Pan) differentiates epithelial tumors from non-epithelial tumors.

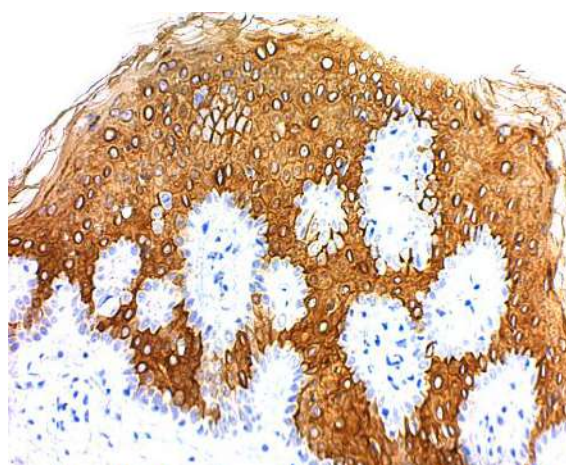
Species: Mouse
 Immunogen: Multiple
 Clone: Multiple
 Isotype: IgG
 Species Reactivity: Human
 Positive Control: Skin
 Cellular Localization: Cytoplasmic

<u>Catalog Number</u>	<u>Volume</u>
A00098-0002	2 ml
A00098-0007	7 ml
A00098-0025	25 ml

Cytokeratin 10; Clone DE-K10 (Ready-To-Use)

Species: Mouse
 Immunogen: Cytoskeletal preparation extracted from human ectocervical epithelium.
 Clone: DE-K10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Dog and Cat. Others not known.
 Positive Control: Esophagus or Tonsil. A431, HeLa, MCF7 cells.
 Specificity: This antibody recognizes a protein of 56.5kDa identified as Cytokeratin 10.

<u>Catalog Number</u>	<u>Volume</u>
A00089-0002	2 ml
A00089-0007	7 ml
A00089-0025	25 ml



Cytokeratin 19 (40 kD); Clone BA 17

Species: Mouse Monoclonal
 Clone: BA 17
 Isotype: IgG1
 MW: 40 kD
 Species Reactivity: Human

Specificity: It is the smallest human keratin found in most simple and non-keratinizing stratified epithelia. This antigen is not present in adult intrafollicular epidermis. The antibody stains most of the epithelial cell types including ductal and glandular epithelia.

<u>Catalog Number</u>	<u>Volume</u>
A20094	2 ml
A00094	6 ml
A00094.0025	25 ml

Cytokeratin 19; Clone A53-B/A2.26 (Ready-To-Use)

Species: Mouse
 Clone: A53-B/A2.26 (Ks 19.1)
 Isotype: Mouse IgG2a, Kappa

Species Reactivity: Human. Reacts weakly with mouse, rat and guinea pig Cytokeratin 19.

Positive Control: Skin, Breast carcinoma, Colon carcinoma, Thyroid.

Specificity: This antibody reacts with the rod domain of human Cytokeratin 19, a polypeptide of 40kDa. The antibody recognition epitope maps between amino acid 312-335. This antibody reacts with the MCF-7 cells which are known to contain Cytokeratin 19.

<u>Catalog Number</u>	<u>Volume</u>
A00122-0002	2 ml
A00122-0007	7 ml
A00122-0025	25 ml

Cytokeratin 20; Clone EP23 (Ready-To-Use)

Species: Rabbit
 Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus in human CK20 protein.

Clone: EP23

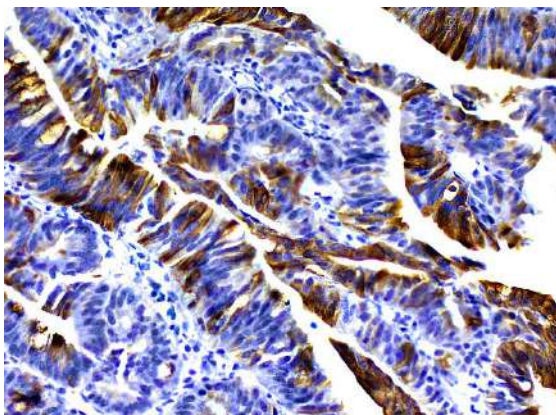
Isotype: Rabbit IgG

Species Reactivity: Human

Positive Control: Colon for normal tissue and colon cancer for abnormal tissue.

Specificity: CK20 expression is restricted to cytoplasmic / cell surface staining in positive cells.

<u>Catalog Number</u>	<u>Volume</u>
A00146-0002	2 ml
A00146-0007	7 ml
A00146-0025	25 ml

**Cytokeratin 5,6 Cocktail; Clones EP42 & EP67 (Ready-To-Use)**

Species: Rabbit
 Designation: Rabbit Monoclonal Cocktail
 Clone: EP42 & EP67
 Isotype: IgG

Species Reactivity: Human. Others not tested.

Positive Control: Skin for normal tissue, Lung Squamous Cell Carcinoma or Mesothelioma for abnormal tissue.

Specificity: Cytokeratin 5,6 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5,6 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00141-0002	2 ml
A00141-0007	7 ml
A00141-0025	25 ml

Cytokeratin 6; Clone EP67 (Ready-To-Use)

Species: Rabbit
 Designation: Rabbit Monoclonal
 Clone: EP67
 Isotype: IgG

Species Reactivity: Human. Others not tested.

Positive Control: Skin for normal tissue and Mesothelioma for abnormal tissue.

Specificity: Cytokeratin 6 is expressed in many non-keratinizing stratified squamous epithelia of large cell carcinoma and pulmonary squamous cell carcinomas. It can also be found on stratified epithelia including: basal layer of epidermis, the outer root sheath of hair follicles, esophagus, oral mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands.

<u>Catalog Number</u>	<u>Volume</u>
A00140-0002	2 ml
A00140-0007	7 ml
A00140-0025	25 ml

Cytokeratin 7; Clone OV-TL12/30 (Ready-To-Use)

Species: Mouse
 Clone: OV-TL12/30
 Isotype: IgG1

Species Reactivity: Human. Others not tested.

Positive Control: Carinoma of Ovary, Lung, Cervix or Breast.

Specificity: Cytokeratin 7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder and female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte and squamous epithelium.

<u>Catalog Number</u>	<u>Volume</u>
A00142-0002	2 ml
A00142-0007	7 ml
A00142-0025	25 ml

Cytokeratin 8; Clone K8/383 (Ready-To-Use)

Species: Mouse

Clone: K8/383

Isotype: IgG1

Species Reactivity: Human, Rat. Others not tested.

Positive Control: MCF-7 or A431 cells. Human Skin, Colon, Lung or Breast carcinoma.

Specificity: Cytokeratin 8 Antibody belongs to the type II (or B or Basic) subfamily of high molecular weight Cytokeratins and exists in combination with Cytokeratin 18. Cytokeratin 8 is primarily found in the non-squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas. It is absent in squamous cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00136-0002	2 ml
A00136-0007	7 ml
A00136-0025	25 ml

Cytokeratin, High Molecular Weight; Clone 34bE12

Species: Mouse Monoclonal

Clone: 34bE12

Isotype: IgG1k

MW: 68, 58, 56.5 and 50 kD

Species Reactivity: Human, Horse, Monkey, Rabbit

Positive Control: Any tissue containing squamous epithelium.

Specificity: This antibody stains squamous, ductal and other complex epithelium. This antibody reacts with squamous cell and ductal carcinomas of the breast, pancreas, bile duct and salivary gland, in addition to transitional cell carcinomas of the bladder and nasopharynx, thymomas, and epithelioid mesotheliomas. Mesenchymal tissues such as blood vessel, smooth muscle, skeletal muscle, dermis and nervous tissue are not stained.

<u>Catalog Number</u>	<u>Volume</u>
A20071	2 ml
A00071	6 ml
A00071.0025	25 ml

Cytokeratin, Multi (Acidic); Clone AE1 (Ready-To-Use)

Species: Mouse Monoclonal

Clone: AE-1

Isotype: IgG1

MW: 56.5, 50, 50', 48 and 40 kD

Species Reactivity: Human, Monkey, Cow, Rabbit, Mouse, Rat, Chicken. Others not tested.

Positive Control: Human epidermal keratin or carcinoma. HT29 cells.

Specificity: Monoclonal antibody AE1 recognizes the 56.5, 50, 50', 48, and 40kDa keratins of the acidic subfamily. Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI<5.7) and basic (pI>6.0) subfamilies. The acidic keratins have molecular weights of 56.5, 55, 51, 50, 50', 48, 46, 45, and 40kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00051-0002	2 ml
A00051-0007	7 ml
A00051-0025	25 ml

Cytokeratin, Multi (Basic); Clone AE-3 (Ready-To-Use)

Species: Mouse

Immunogen: Human epidermal keratin

Clone: AE-3

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.

Positive Control: Epithelial cells, skin or adenocarcinomas.

Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).

<u>Catalog Number</u>	<u>Volume</u>
A00052-0002	2 ml
A00052-0007	7 ml
A00052-0025	25 ml

Cytokeratin, Pan; Clones AE1 & AE3 (Ready-To-Use)

Species: Mouse

Immunogen: Human epidermal keratin

Clone: AE-1 & AE-3

Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)

Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.

Positive Control: Skin, Adeno- or Squamous carcinomas.

Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00152-0002	2 ml
A00152-0007	7 ml
A00152-0025	25 ml

Desmin, Clone D33 (Ready-To-Use)

Species: Mouse

Immunogen: Proteins from human Leiomyoma.

Clone: D33

Isotype: IgG1, kappa

Species Reactivity: Human, Rat, Mouse, Hamster, Chicken. Others not known.

Positive Control: Muscle, Uterus, Leiomyosarcoma or SJRH30 cells.

Specificity: Desmin, Clone D33 detects cells of normal smooth, skeletal, and cardiac muscles. This antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

<u>Catalog Number</u>	<u>Volume</u>
A00007-0002	2 ml
A00007-0007	7 ml
A00007-0025	25 ml

Epithelial Membrane Antigen; Clone E29 (Ready-To-Use)

Species: Mouse

Immunogen: Delipidated extract of human milk fat globule membranes

Clone: E29

Isotype: IgG2a, kappa

Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

<u>Catalog Number</u>	<u>Volume</u>
A00008-0002	2 ml
A00008-0007	7 ml
A00008-0025	25 ml

Estrogen Receptor; Clone 11D5 (Ready-To-Use)

Species: Mouse

Clone: 11D5

Isotype: IgG1, Kappa

Species Reactivity: Human

Positive Control: Breast Carcinoma.

Cellular Localization: Nuclei.

Specificity: This antibody is specific to estrogen receptor, which is associated with superior prognosis and a better response to endocrine therapy. The nuclei of the estrogen receptor positive cells stain very strongly with this antibody, without any staining in the cytoplasm. However, on cryostat sections a positive staining of estrogen receptor in the nucleus as well as cytoplasm can be seen. This antibody can be used for gel shift assay, immunoprecipitation, immunohistochemistry and western blotting.

<u>Catalog Number</u>	<u>Volume</u>
A00106-0002	2 ml
A00106-0007	7 ml
A00106-0025	25 ml

Estrogen Receptor; Clone 1D5 (Ready-To-Use)

Species: Mouse Monoclonal

Clone: 1D5

Isotype: IgG1,k

MW: 67 kD

Specificity: Recognizes a protein of 67 kDa which is identified as estrogen receptor (ER). Its epitope maps in the N-terminal domain (A/B) of ER. The ER gene consists of more than 140kb of genomic DNA divided into 8 exons, being translated into a protein with six functionally discrete domains, labeled A through F.

<u>Catalog Number</u>	<u>Volume</u>
A20010	2 ml
A00010	6 ml
A00010.0025	25 ml

Estrogen Receptor; Clone ERa078 (Ready-To-Use)

Species: Mouse

Clone: ERa078

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human.

Positive Control: Breast carcinoma.

Specificity: This antibody is specific for estrogen receptor.

<u>Catalog Number</u>	<u>Volume</u>
A00128-0002	2 ml
A00128-0007	7 ml
A00128-0025	25 ml

GFAP; Clone ASTRO/789 (Ready-To-Use)

Species: Mouse

Immunogen: Recombinant GFAP protein

Clone: ASTRO/789

Isotype: IgG1

Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.

Positive Control: Brain or Astrocytoma.

Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.

<u>Catalog Number</u>	<u>Volume</u>
A00158-0002	2 ml
A00158-0007	7 ml
A00158-0025	25 ml

Glial Fibrillary Acidic Protein (GFAP); Clone GA-5 (Ready-To-Use)

Species: Mouse

Immunogen: Porcine Spinal Chord

Mol. Weight: 51-52kDa

Clone: GA-5

Isotype: IgG1

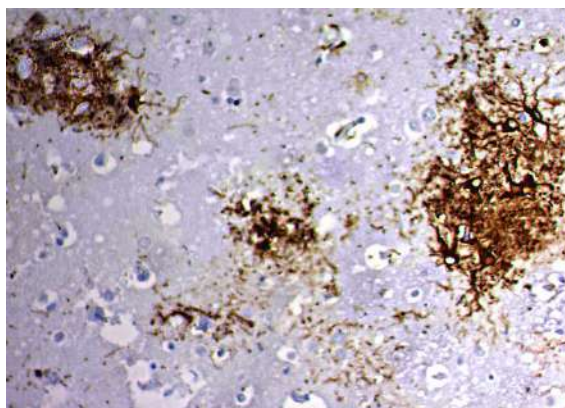
Species Reactivity: Human, Pig, Rat, and Chicken. Others not tested.

Positive Control: IMR5, Brain, or Astrocytoma.

Cellular Localization: Cytoplasmic.

Specificity: Glial Fibrillary Acidic Protein (GFAP) is specific to astrocytes and ependymal cells of the central nervous system. This product effectively stains astrocytes, glial cells, ependymal cells and their associated tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00102-0002	2 ml
A00102-0007	7 ml
A00102-0025	25 ml



Hairy Cell Leukemia; Clone DBA.44 (Ready-To-Use)

Species: Mouse
 Clone: DBA.44
 Isotype: IgM, Kappa
 Species Reactivity: Human

Specificity: This antibody reacts with over 97% of hairy cell leukemia as well as about 35% of high grade B cell lymphomas. It reacts with B lymphocytes, cells of mantle zone and immunoblasts outside the lymphoid tissues.

<u>Catalog Number</u>	<u>Volume</u>
A20015	2 ml
A00015	6 ml
A00015.0025	25 ml

Insulin; Clone 2D11-H5 (Ready-To-Use)

Species: Mouse
 Clone: 2D11-H5
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human, Pig, Cow.
 Positive Control: Pancreatic tissue.
 Specificity: Detects insulin and insulin producing cells.

<u>Catalog Number</u>	<u>Volume</u>
A00114-0002	2 ml
A00114-0007	7 ml
A00114-0025	25 ml

Kappa, Light Chain; Clone KLC264 (Ready-To-Use)

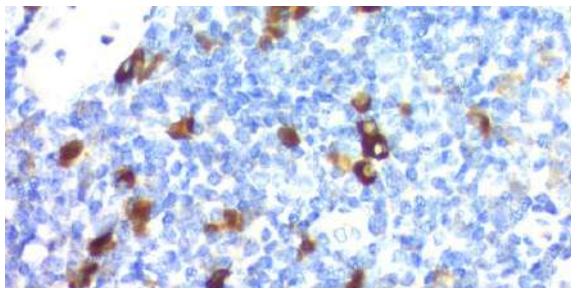
Species: Mouse
 Immunogen: Recombinant human Ig kappa chain
 Clone: KLC264
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.

<u>Catalog Number</u>	<u>Volume</u>
A00156-0002	2 ml
A00156-0007	7 ml
A00156-0025	25 ml

Kappa; Clone L1C1 (Ready-To-Use)

Species: Mouse
 Clone: L1C1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil.
 Specificity: The kappa light chain antibody recognizes the kappa light chain of immunoglobulin.

<u>Catalog Number</u>	<u>Volume</u>
A00113-0002	2 ml
A00113-0007	7 ml
A00113-0025	25 ml

**Lambda Light Chain; Clone LcN-2 (Ready-To-Use)**

Species: Mouse
 Immunogen: Purified human IgG
 Clone: LcN-2
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.

<u>Catalog Number</u>	<u>Volume</u>
A00155-0002	2 ml
A00155-0007	7 ml
A00155-0025	25 ml

Laminin; Clone 4C7 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: 4C7
 Isotype: IgG2a
 MW: 100 kD
 Species Reactivity: Human. Not reactive with mouse or rat.

Specificity: The basement membrane (BM) is a component of the extracellular matrix and is composed of a variety of proteins, of which laminin is the most prevalent. Laminin is synthesized by fibroblasts in epithelial and endothelial cells, as well as smooth muscle cells. This protein normally contributes to the regulation of cell growth, cell attachment to the BM and to the morphology of cells and their migration.

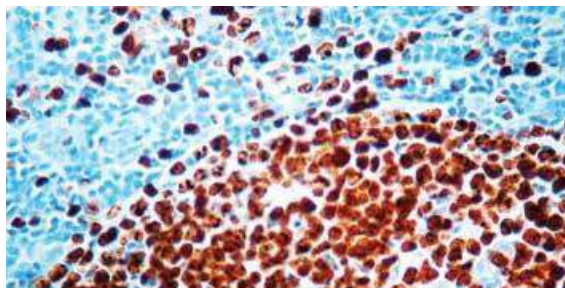
The monoclonal labels trophoblastic cells of the villous trophoblastic epithelium in the placenta, and epithelia and BM in normal tonsil. Extensive studies of a variety of invasive and non-invasive carcinomas, including their benign counterparts, demonstrated a lack of immunoreactivity for laminin in the majority of invasive carcinomas. Benign or non-invasive lesions showed intact BM.

<u>Catalog Number</u>	<u>Volume</u>
A20079	2 ml
A00079	6 ml
A00079.0025	25 ml

MART-1; Clone M2-7C10 (Ready-To-Use)

Species: Mouse
 Clone: M2-7C10
 Isotype: Mouse IgG2b, Kappa
 Species Reactivity: Human. Clone M2-7C10 does not react with mouse or rat.
 Positive Control: Metastatic melanoma in lymph nodes.
 Specificity: The clone M2-7C10 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00115-0002	2 ml
A00115-0007	7 ml
A00115-0025	25 ml



MART-1; Clone M2-9E2 (Ready-To-Use)

Species: Mouse
 Clone: M2-9E2
 Isotype: Mouse IgG2b, Kappa
 Species Reactivity: Human, Mouse, Rat.
 Positive Control: Metastatic melanoma in lymph nodes.
 Specificity: The clone M2-9E2 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00116-0002	2 ml
A00116-0007	7 ml
A00116-0025	25 ml

MART-1; Clones M2-7C10 & M2-9E3 (Ready-To-Use)

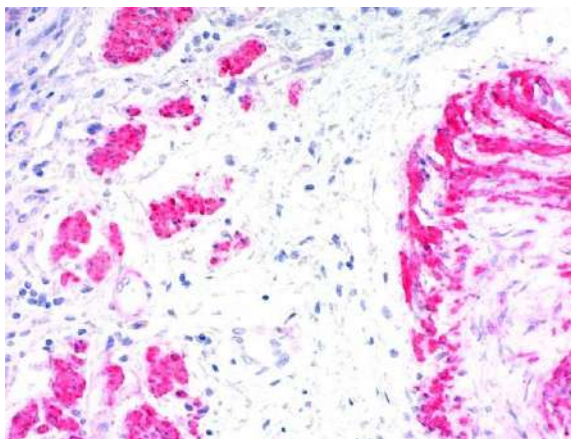
Species: Mouse
 Clones: M2-7C10 & M2-9E3
 Isotype: Mouse IgG2b, kappa
 Species Reactivity: Human.
 Positive Control: Human Melanoma.
 Specificity: MART-1 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00133-0002	2 ml
A00133-0007	7 ml
A00133-0025	25 ml

Melanoma Associated Antigen; Clone KBA.62 (Ready-To-Use)

Species: Mouse
 Immunogen: Human KAL cells derived from lymph node metastasis of malignant melanoma
 Clone: KBA.62
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Melanoma
 Cellular Localization: Cell Surface
 Specificity: KBA.62 is a novel anti-melanoma antibody. It reacts positively against melanocytic tumors but not against other tumors, thus demonstrating specificity and sensitivity. Moreover, it reacts positively against junctional nevus cells but not intradermal nevi, and against fetal melanocytes but not normal adult melanocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00153-0002	2 ml
A00153-0007	7 ml
A00153-0025	25 ml

**Melanoma; Clone HMB45 (Ready-To-Use)**

Species: Mouse Monoclonal
 Clone: HMB45
 Isotype: IgG1 / Kappa
 Species Reactivity: Human. Does not react with dog and rat.
 Positive Control: Melanoma

Specificity: By immunohistochemistry, it specifically recognizes a protein in melanocytes and melanomas. Biochemical nature of its antigen is yet not fully characterized. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

<u>Catalog Number</u>	<u>Volume</u>
A00019-0002	2 ml
A00019-0007	7 ml
A00019-0025	25 ml

Melanoma; Pan (Ready-To-Use)

Species: Mouse
 Clones: MART-1; Clone M2-7C10, MART-1; Clone M2-9E3, Tyrosinase; Clone T311, Melanoma: HMB45.
 Isotype: Mouse IgG1
 Species Reactivity: Human.
 Positive Control: Human Melanoma
 Specificity: Melanoma; Pan is a broad spectrum marker for metastatic melanoma.

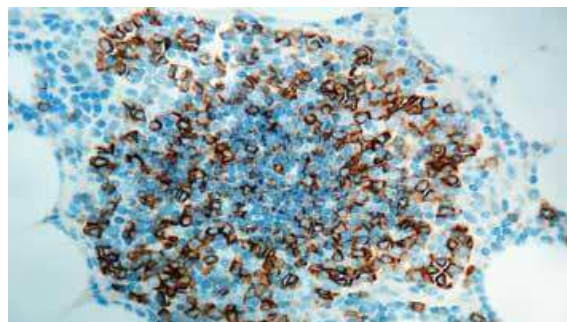
<u>Catalog Number</u>	<u>Volume</u>
A00134-0002	2 ml
A00134-0007	7 ml
A00134-0025	25 ml

MIC2 Gene Protein, CD99; Clone HO36-1.1 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: HO36-1.1
 Isotype: IgM
 Species Reactivity: Human, Rat, Others not tested.
 Positive Control: Pancreas or Ewing's sarcoma.
 Cellular Localization: Cell Membrane.

Specificity: This antibody reacts with the MIC2 gene products expressed on the cell membrane of lymphocytes, cortical thymocytes, Langerhans' islet cells, granulosa cells of the ovary and Sertoli cells of the testis. This antibody reacts strongly with Ewing's Sarcoma and peripheral neuroectodermal tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00044-0002	2 ml
A00044-0007	7 ml
A00044-0025	25 ml



MSH6; Clone EP49 (Ready-To-Use)

Species: Rabbit
 Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues at the N-terminus in human MSH6 protein.
 Clone: EP49
 Isotype: Rabbit IgG
 Species Reactivity: Human
 Positive Control: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.
 Specificity: MSH6 is restricted to nuclear staining in positive cells.

<u>Catalog Number</u>	<u>Volume</u>
A00149-0002	2 ml
A00149-0007	7 ml
A00149-0025	25 ml

MUC5AC (Gastric Mucin); Clone 45M1 (Ready-To-Use)

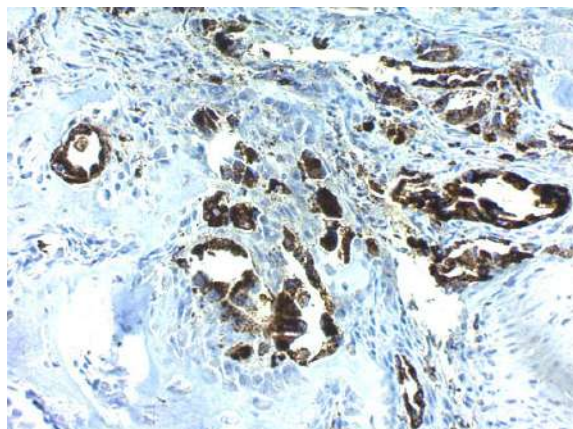
Species: Mouse
 Clone: 45M1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human, Monkey, Cat, Chicken, Hedgehog, Mouse, Pig, Rabbit, Rat. Does not react with cow.
 Positive Control: Stomach.
 Specificity: MUC5AC is expressed in airway and gastric epithelial cells and highly expressed in colorectal carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00124-0002	2 ml
A00124-0007	7 ml
A00124-0025	25 ml

Napsin A; Clones NAPSA/1238 & NAPSA/1239 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant human Napsin-A protein fragment (aa 189-299). Exact sequence is proprietary.
 Clones: NAPSA/1238 & NAPSA/1239
 Isotype: IgG1, Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Lung adenocarcinoma.
 Specificity: This antibody is specific for a pepsin-like aspartic proteinase identified as Napsin A.

<u>Catalog Number</u>	<u>Volume</u>
A00131-0002	2 ml
A00131-0007	7 ml
A00131-0025	25 ml

**Neurofilament; Clone 2F11 (Ready-To-Use)**

Species: Mouse
 Clone: 2F11
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rabbit, Cat, Mouse and Rat. Does not react with dog.
 Positive Control: Brain

Specificity: This antibody stains neurons (axons) of the central and peripheral nervous system. It is useful for the identification of tumors with neuronal differentiation viz. Neuroblastomas, Ganglioneuromas, Pheochromocytomas and Esthesioblastomas. The antibody cross-reacts with the NF-equivalent protein in mouse, rabbit, rat and swine. The antibody can also be utilized to discriminate between Hirschsprung's disease and allied enteric nervous system malformations.

<u>Catalog Number</u>	<u>Volume</u>
A00020-0002	2 ml
A00020-0007	7 ml
A00020-0025	25 ml

p21WAF1; Clone WA-1 (Ready-To-Use)

Species: Mouse
 Clone: WA-1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Colon Carcinoma.
 Specificity: The antibody is highly specific to p21; it does not cross-react with other closely related mitotic inhibitors. Specificity validations include antibody recognition of recombinant p21 by western blot (Koike, 2011) and in direct ELISA assays (Rossner, 2002 & 2007). Although the exact epitope for the antibody has not been mapped, the epitope appears to be different from those recognize by other p21 antibody clones.

<u>Catalog Number</u>	<u>Volume</u>
A00125-0002	2 ml
A00125-0007	7 ml
A00125-0025	25 ml

p53 Cocktail; Clones Pab 1801 plus DO-7 (Ready-To-Use)

Species: Mouse
 Clone: Pab1801 & DO-7
 Isotype: IgG1 & IgG2b, Kappa
 MW: 53 kD
 Species Reactivity: Human
 Positive Control: About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.

Specificity: This antibody reacts with wild as well as mutant types of p53 protein. It recognizes an epitope in the N-terminus of p53 protein. p53 is a 53 kD phosphoprotein known as tumor suppressor gene product. About 50% of breast carcinomas are positive for p53 especially those lacking estrogen and/or progesterone receptors. This antibody can be demonstrated in 22-76% of colon, stomach, bladder, breast, lung and testes cancers. Its epitope maps within the N-terminus (aa 32-79) of p53.

<u>Catalog Number</u>	<u>Volume</u>
A20093	2 ml
A00093	6 ml
A00093.0025	25 ml

p53; Clone BP53-12 (Ready-To-Use)

Species: Mouse
 Clone: BP53-12
 Isotype: IgG2a, Kappa
 Species Reactivity: Human. Will not cross-react with mouse or rat.
 Cellular Localization: Nuclear.
 Specificity: This p53 antibody recognizes a 53kDa protein, which is identified as p53 suppressor gene product. The antibody reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. The epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.

<u>Catalog Number</u>	<u>Volume</u>
A00109-0002	2 ml
A00109-0007	7 ml
A00109-0025	25 ml

p53; Clone DO-1 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: DO-1
 Isotype: IgG2a
 MW: 53 kD
 Species Reactivity: Human, Monkey, Cow, and weak reaction with Mouse and Rat.
 Positive Control: About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.

Specificity: Recognizes a 53kDa phosphoprotein, identified as p53 suppressor gene product. It reacts with mutant as well as wild form of p53. Its epitope maps within the N-terminus (aa37-45) of p53. Monoclonal antibody Pab 1801 does not block the binding of DO-1 to p53 in an ELISA test.

<u>Catalog Number</u>	<u>Volume</u>
A20027-0002	2 ml
A00027-0007	7 ml
A00027-0025	25 ml

p53; Clone DO-7 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant human wild type p53 protein expressed in E. coli.
 Clone: DO-7
 Isotype: IgG2b,k
 MW: 53 kD
 Species Reactivity: Human, Monkey, and Cow. Others not known.
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma. About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53. Its epitope maps within the N-terminus (aa 37-45) of p53.

<u>Catalog Number</u>	<u>Volume</u>
A00021-0002	2 ml
A00021-0007	7 ml
A00021-0025	25 ml

PCNA; Clone PC10 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: PC10
 Isotype: IgG2a/k
 MW: 36 kD
 Species Reactivity: Human, Murine, Insect, and Yeast
 Positive Control: Tonsil or reactive lymph node.

Specificity: Recognizes a non-histone protein of 36kDa which is identified as proliferating cell nuclear antigen (PCNA). It is also known as cyclin or polymerase delta auxiliary protein. Elevated expression of PCNA/cyclin has been shown in the nucleus during late G1 phase immediately before the onset of DNA synthesis, becoming maximal during S-phase and declining during G2 and M phases.

<u>Catalog Number</u>	<u>Volume</u>
A20022	2 ml
A00022	6 ml
A00022.0025	25 ml

Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant human PLAP protein
 Clone: ALP/870
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2 cells. Placenta or seminoma.
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.

<u>Catalog Number</u>	<u>Volume</u>
A00154-0002	2 ml
A00154-0007	7 ml
A00154-0025	25 ml

PSAP (Prostate Specific Acid Phosphatase); Clone PASE/4LJ

Species: Mouse Monoclonal
 Clone: PASE/4LJ
 Isotype: IgG1
 MW: 52 kD
 Species Reactivity: Human, Dog, Rabbit, and Rat.
 Positive Control: Normal prostate or prostate carcinoma.

Specificity: Recognizes a protein of 52kDa, identified as prostate specific acid phosphatase (PSAP). PASE/4LJ is highly specific to PSAP and shows no cross-reaction with other phosphatases. It does not inhibit the enzymatic activity of PSAP. This antibody reacts with non-neoplastic adult and fetal prostatic glands, primary and metastatic prostatic carcinomas. Histo-Line's PASE/4LJ is recommended for immunohistochemical staining of formalin- fixed, paraffin-embedded tissues. Unlike polyclonal antibody to PSAP, PASE/4LJ Mab shows no staining in granulocytes, osteoclasts, parietal cells of the stomach, liver cells, renal cell or breast carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A20041	2 ml
A00041	6 ml
A00041.0025	25 ml

Renal Cell Carcinoma (RCC); Clone 66.4.C2 (Ready-To-Use)

Species: Mouse

Clone: 66.4.C2

Isotype: Mouse IgG2b, Kappa

Species Reactivity: Human, Horse. Others not tested.

Positive Control: Kidney.

Specificity: The actual protein recognized by RCC-ma antibody is a 200 kDa glycoprotein (gp200) expressed in renal epithelial cells.

In normal tissue, the renal cell carcinoma/RCC-ma/gp200 antibody stains the brush border of proximal renal tubules in human kidneys. Gp200 is also expressed in some non-kidney tissues including breast tubules and ducts, the surface of epididymal tubular epithelia, and the colloid of thyroid follicles. However, because of the reported high expression of gp200 in renal cell carcinoma, gp200 is most commonly referred to as Renal Cell Carcinoma Marker.

<u>Catalog Number</u>	<u>Volume</u>
A00118-0002	2 ml
A00118-0007	7 ml
A00118-0025	25 ml

S-100; Clone 4C4.9 (Ready-To-Use)

Species: Mouse Monoclonal

Clone: 4C4.9

Isotype: IgG2a

MW: 21-24 kD

Species Reactivity: Human, Cow, Mouse

Positive Control: Melanoma or Schwannoma.

Specificity: Recognizes proteins of 21-24kDa, identified as the A and B subunits of S100 protein. S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100A is composed of an alpha and beta chain whereas S100B is composed of two beta chains. Antibody to S100 stains Schwannomas, ependymomas, astroglomas, almost all benign and malignant melanomas and their metastases. S100 protein is also expressed in the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes. S100 protein is highly soluble and may be eluted from frozen tissue during staining.

<u>Catalog Number</u>	<u>Volume</u>
A00087-0002	2 ml
A00087-0007	7 ml
A00087-0025	25 ml

Secretory Component; Clone SC05 (Ready-To-Use)

Species: Mouse

Clone: SC05

Isotype: IgG1, Kappa

Species Reactivity: Human, Rat. Others not tested.

Positive Control: Breast carcinoma, Lung, Stomach.

Specificity: This antibody reacts with both free and bound secretory component to secretory IgA.

<u>Catalog Number</u>	<u>Volume</u>
A00127-0002	2 ml
A00127-0007	7 ml
A00127-0025	25 ml

SOX10; Clone SOX10/991 (Ready-To-Use)

Species: Mouse

Immunogen: Recombinant human SOX10 protein fragment (aa115-269) (exact sequence is proprietary).

Clone: SOX10/991

Isotype: IgG2b, Kappa.

Species Reactivity: Human and Mouse. Others-not known.

Positive Control: HepG2 cells, Melanoma, breast carcinomas, gliomas.

Specificity: Recognizes a protein of ~55kDa, identified as SOX10.

This antibody does not cross-react with other members of the SOX-family.

<u>Catalog Number</u>	<u>Volume</u>
A00161-0002	2 ml
A00161-0007	7 ml
A00161-0025	25 ml

Thyroglobulin; Clone 2H11 (Ready-To-Use)

Species: Mouse

Clone: 2H11

Isotype: IgG1, Kappa

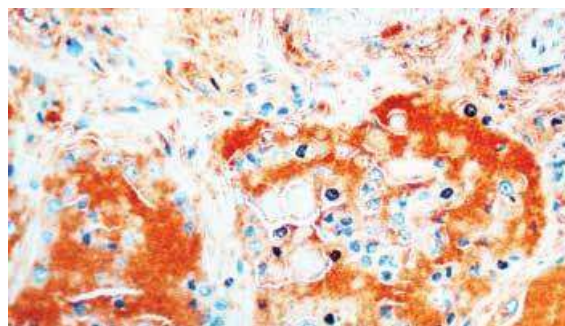
Species Reactivity: Human

Cellular Localization: Cytoplasmic

Specificity: Thyroglobulin is a 660 kDa dimeric preprotein with multiple glycosylation sites is produced by and processed within the thyroid gland to produce the hormone thyroxine and triiodothyronine. Prior to forming dimers, thyroglobulin monomers undergo conformation maturation in the endoplasmic reticulum. Thyroglobulin dimerization as well as transport of thyroglobulin to the Golgi complex is calcium dependent. Thyroglobulin defects resulting from defective dimer formation and export to the Golgi is thought to cause some types of goiter. Antibody against thyroglobulin may be produced by individuals with other diseases arising from the gland such as Hashimoto's or Graves disease. Hence the presence of thyroglobulin autoantibodies can help to identify disease.

Antibody to thyroglobulin has been shown to be useful for the identification of papillary and follicular thyroid carcinoma; thyroglobulin antibody positive lesions are of thyroidal origin. Carcinomas of nonthyroidal origin do not express thyroglobulin and hence are thyroglobulin antibody negative. It is important to note though that not every type of thyroidal lesion is thyroglobulin antibody positive, a number of forms are negative. Hence a negative result does not necessarily rule out that a given lesion or metastasis originated from the thyroid gland.

<u>Catalog Number</u>	<u>Volume</u>
A00108-0002	2 ml
A00108-0007	7 ml
A00108-0025	25 ml



TTF-1; Clone 8G7G3/1 (Ready-To-Use)

Species: Mouse
 Designation: Mouse Monoclonal
 Clone: 8G7G3/1
 Isotype: IgG1
 Species Reactivity: Human. Others not tested.
 Positive Control: Adenocarcinoma of the Lung or Thyroid.
 Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

<u>Catalog Number</u>	<u>Volume</u>
A00144-0002	2 ml
A00144-0007	7 ml
A00144-0025	25 ml

Tyrosinase; Clone T311 (Ready-To-Use)

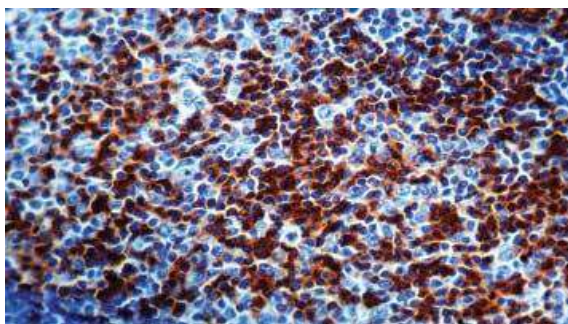
Species: Mouse
 Clone: T311
 Isotype: Mouse IgG1
 Species Reactivity: Human.
 Positive Control: Human Melanoma
 Specificity: Tyrosinase has been shown to be a very specific marker for melanomas. Cross reactivity with other tumors or normal tissues tested has not been reported.

<u>Catalog Number</u>	<u>Volume</u>
A00132-0002	2 ml
A00132-0007	7 ml
A00132-0025	25 ml

Uchl1 (PGP9.5); Clone 31A3 (Ready-To-Use)

Species: Mouse
 Clone: 31A3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Cow, Human, Mouse, Pig, Rat.
 Positive Control: Brain.
 Specificity: The Uchl1 clone 31A3 antibody stains neuronal cell bodies and axons in the central and peripheral nervous systems as well as small nerve fibers in peripheral tissues, including epidermal tissues (Day & Thompson, 2010). The antibody also stains neuroendocrine cells in the kidney, pituitary, thyroid, pancreas, gastrointestinal tract, and tumors of the diffuse neuroendocrine system. This antibody has also identified Uchl1 expression in renal tubule spermatogonia, testis, ovary, and both pregnant and non-pregnant corpus luteum.

<u>Catalog Number</u>	<u>Volume</u>
A00120-0002	2 ml
A00120-0007	7 ml
A00120-0025	25 ml

**Vimentin; Clone SP20**

Species: Rabbit
 Immunogen: Recombinant protein encoding human vimentin.
 Mol. Weight: 57-60kDa
 Clone: SP20
 Isotype: IgG
 Specificity: This antibody selectively stains vimentin in human tissue sections. Vimentin is the main intermediate filament in mesenchymal cells and is therefore of value in the differential diagnosis of undifferentiated neoplasms.
 Species Reactivity: Human. Others not tested.

<u>Catalog Number</u>	<u>Volume</u>
A20105	2 ml
A00105	6 ml
A00105.0025	25 ml

Vimentin; Clone V9

Species: Mouse Monoclonal
 Clone: V9
 Isotype: IgG1/k
 MW: 57-60 kD
 Species Reactivity: Human, Monkey, Cow, Horse, Pig, Rabbit, Dog, Cat, Rat, Mouse, Hamster, Gerbil and Chicken.
 Positive Control: Sarcomas, meningiomas, or melanomas.

Specificity: Recognizes a 57-60kDa protein which is identified as vimentin. It shows no cross reactivity with other closely related intermediate filament proteins including desmin and GFAP.

<u>Catalog Number</u>	<u>Volume</u>
A20045	2 ml
A00045	6 ml
A00045.0025	25 ml

Monoclonal Concentrates

Regulatory Status: IVD

Actin, Alpha-Smooth Muscle; Clone 1A4 (Concentrate)

Species: Mouse Monoclonal
 Clone: 1A4
 Isotype: IgG2a,k
 Species Reactivity: Human, Baboon, Cow, Rabbit, Mouse, Rat, Chicken.
 Positive Control: Blood vessels

Specificity: This antibody recognizes the α -smooth muscle form of actin. It shows no cross reaction with actin from fibroblasts (b- and g-cytoplasmic), striated muscle (a-sarcometric), and myocardium (a-myocardial). Its epitope is composed of the acetyl

group and the first 4 amino acids on the N-terminal end of the peptidic chain of α -smooth actin. Histo-Line's 1A4 stains smooth muscle cells in vessel walls, gut wall, and myometrium. Myoepithelial cells in breast and salivary gland are also stained as they also contain this actin.

<u>Catalog Number</u>	<u>Volume</u>
A00002-C.1	0.1 ml
A00002-C	1 ml

Bcl-2; Clone 100/D5 (Concentrate)

Species: Mouse

Clone: 100/D5

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human, Monkey. Others not tested.

Positive Control Tonsil.

Cellular Localization: Cytoplasmic & Cell Membrane.

Specificity: Human Bcl-2 alpha is a 239 amino acid (aa) protein and human Bcl-2 beta is a 205 aa protein. The 100/D5 antibody [also known as clone Bcl-2/100 (Kren, 2004, Kaur, 2004)] recognizes both Bcl-2 isoforms (Pezzela et al, 1990).

<u>Catalog Number</u>	<u>Volume</u>
A00119-C.1	0.1 ml
A00119-C	1 ml

Bcl-2; Clone 124 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein

Clone: 124

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.

Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

<u>Catalog Number</u>	<u>Volume</u>
A00004-C.1	0.1 ml
A00004-C	1 ml

CA19-9; Clone 121SLE (Concentrate)

Species: Mouse

Clone: 121SLE

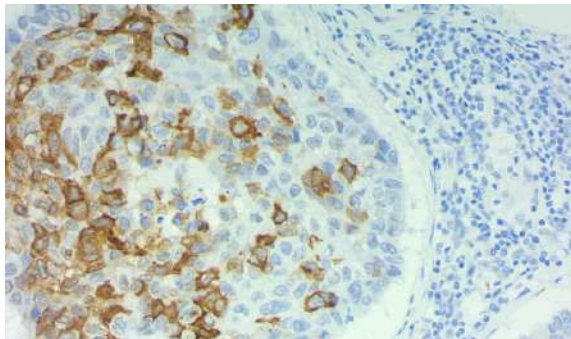
Isotype: IgM, Kappa

Species Reactivity: Human

Cellular Localization: Luminal surface and cytoplasm.

Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewisia structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewisia and/or Lewisb blood group antigens. In normal tissues, sialyl Lewisia antigen is present in ductal epithelium of the breast, kidney, salivary gland, and sweat glands. Its expression is greatly enhanced in serum as well as in the majority of tumor cells in gastrointestinal (GI) carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas. Preoperative elevated CA19-9 levels in patients with stage I pancreatic carcinoma decrease to normal values following surgery. When used serially, CA19-9 can predict recurrence of disease prior to radiographic or clinical findings.

<u>Catalog Number</u>	<u>Volume</u>
A00107-C	1 ml

**Carcinoembryonic Antigen, Pan (CEA); Clone COL-1 (Concentrate)**

Species: Mouse

Immunogen: BALB/c mice were injected with an extract of human colon carcinoma.

Clone: COL-1

Isotype: IgG1 Kappa

Species Reactivity: Human. Others not tested.

Positive Control: Colon Adenocarcinoma.

Specificity: This antibody labels the CEA-positive glycocalyx surface of gastrointestinal cells and is useful for the identification of colon carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00135-C	1 ml

CD10, CALLA (Neutral Endopeptidase); Clone 56C6 (Concentrate)

Species: Mouse

Immunogen: Recombinant human CD10 protein fragment.

Clone: 56C6

Isotype: IgG1, kappa

Species Reactivity: Human, Rat. Others not tested.

Positive Control: Kidney, small intestine, or tonsil.

Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphatic Leukemia Antigen (CALLA).

<u>Catalog Number</u>	<u>Volume</u>
A00091-C.1	0.1 ml
A00091-C	1 ml

CD15 / FUT4; Clone Leu-M1 (Concentrate)

Species: Mouse

Immunogen: U937 histiocytic cell line

Clone: Leu-M1

Isotype: IgM, kappa

Species Reactivity: Human. Others not known.

Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.

Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.

<u>Catalog Number</u>	<u>Volume</u>
A00151-C.1	0.1 ml
A00151-C	1 ml

CD20, B-Cell; Clone L26 (Concentrate)

Species: Mouse

Immunogen: Human tonsil B-cells

Clone: L26

Isotype: IgG2a, kappa

Species Reactivity: Human, Baboon, and Monkey. Does not react with Cow, Dog, Pig, and Rat. Others not known.

Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.

Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.

<u>Catalog Number</u>	<u>Volume</u>
A00003-C.1	0.1 ml
A00003-C	1 ml

CD30, Ki-1 Antigen; Clone Ber-H2 (Concentrate)

Species: Mouse
 Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage
 Clone: Ber-H2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Hodgkin's lymphoma
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This Mab distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00016-C.1	0.1 ml
A00016-C	1 ml

CD31, Endothelial Cell; Clone JC/70A (Concentrate)

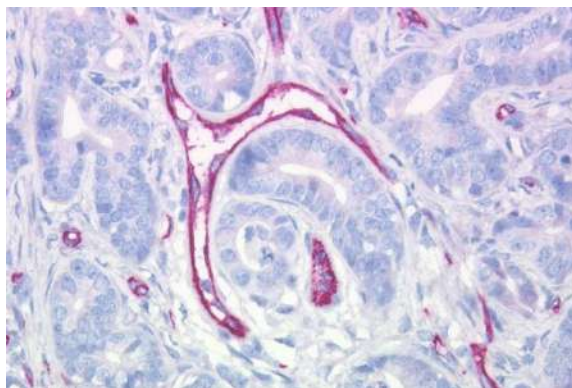
Species: Mouse
 Immunogen: Membrane preparation of a spleen from a patient with hairy cell leukemia.
 Clone: JC/70A
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit.
 Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.

<u>Catalog Number</u>	<u>Volume</u>
A00009-C.1	0.1 ml
A00009-C	1 ml

CD31; Clone C31.3 (Concentrate)

Species: Mouse
 Clone: C31.3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, Liver, Kidney.
 Specificity: The CD31 antibody (clone C31.3 or PECAM-1) is widely used as a pan-endothelial cell marker to demonstrate the presence of endothelial cells in tissue sections by immunohistochemistry. The CD31 (PECAM-1) antibody reacts with normal, benign, and malignant endothelium.

<u>Catalog Number</u>	<u>Volume</u>
A00126-C	1 ml

**CD31; Clone C31.7 (Concentrate)**

Species: Mouse
 Clone: C31.7
 Isotype: IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil
 Cellular Localization: Primarily membrane.
 Specificity: This antibody recognizes a 100kDa glycoprotein in endothelial cells and 130kDa in platelets. This antibody reacts with endothelial cells in normal tissues and in benign and malignant proliferations. In cryostat sections and blood smears the antibody also stains megakaryocytes, platelets and occasionally plasma cells. It reacts weakly with mantle zone B cells, peripheral T cells, and neutrophils. Antibody to CD31 is of value in the study of benign and malignant vascular tumors. Staining for CD31 has also been used to measure angiogenesis, which reportedly predicts tumor recurrence.

<u>Catalog Number</u>	<u>Volume</u>
A00110-C	1 ml

CD34, Endothelial Cell; Clone QBEnd/10 (Concentrate)

Species: Mouse
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta
 Clone: QBEnd/10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog. Others not known.
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma
 Specificity: This antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.

<u>Catalog Number</u>	<u>Volume</u>
A00070-C.1	0.1 ml
A00070-C	1 ml

CD43, T-Cell; Clone DF-T1 (Concentrate)

Species: Mouse
 Immunogen: Myeloblastic KG1 cells
 Clone: DF-T1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].

<u>Catalog Number</u>	<u>Volume</u>
A00082-C.1	0.1 ml
A00082-C	1 ml

CD45, Leucocyte Common Antigen (LCA); Clones PD7/26 & 2B11 (Concentrate)

Species: Mouse
 Immunogen: Isolated neoplastic cells from T-cell lymphoma (2B11); human peripheral blood lymphocytes maintained in T-cell growth factor (PD7/26).
 Clone: 2B11 & PD7/26
 Isotype: IgG1, kappa (2B11); IgG1, kappa (PD7/26).
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: This antibody recognizes the CD45 leukocyte common antigen (LCA) family.

<u>Catalog Number</u>	<u>Volume</u>
A00017-C.1	0.1 ml
A00017-C	1 ml

CD45; Clone 2B11 (Concentrate)

Species: Mouse
 Clone: 2B11
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil.
 Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages / histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, Dendritic cells, medullary thymocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00129-C	1 ml

CD45RA (LCA); Clone 158-4D3 (Concentrate)

Species: Mouse
 Clone: 158-4D3
 Isotype: Mouse IgG2a, Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Tonsil, Spleen.
 Specificity: The CD45RA 158-4D3 antibody clone reacts with the ABC and BC isoforms (Schlossman et al, 1995). CD45RA has a molecular weight of 205-220 kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00123-C	1 ml

CD45RB; Clone PD7/26 (Concentrate)

Species: Mouse
 Clone: PD7/26
 Isotype: Mouse IgG1
 Species Reactivity: Human.
 Positive Control: Tonsil.
 Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages/histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, dendritic cells, medullary thymocytes. CD45RB is highly expressed on memory B cells and plasmablasts but not on naïve B cells, Langerhans cells and some T cells, B cells, monocytes, macrophages, granulocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00130-C	1 ml

CD45RO, T-Cell; Clone UCHL1 Concentrate

Species: Mouse Monoclonal
 Clone: UCHL1
 Isotype: IgG2a,k
 Species Reactivity: Human, Rhesus Monkey. Does not react with Rat.
 Positive Control: Tonsil or Lymph Node.

Specificity: This antibody reacts with a 180 kD glycoprotein of CD45 family, occurring on most thymocytes and activated T cells but only on the portion of the resting T cells. It reacts with most thymocytes, a subpopulation of resting cells within both the CD4 and CD8 subsets and mature activated T cells. This antibody shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Though this antibody is useful to identify T-cell lymphomas and leukemia, rare staining with B cell lymphomas reported.

<u>Catalog Number</u>	<u>Volume</u>
A00024-C	1 ml

CD56; Clone 123C3 (Concentrate)

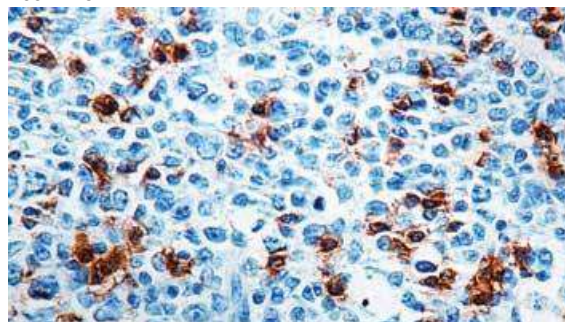
Species: Mouse
 Clone: 123C3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, Neuroblastoma, Pancreatic Islet cells.
 Specificity: This antibody recognizes two proteins (185kDa & 145kDa), identified as two isoforms of neural cell adhesion molecule (NCAM/CD56). It is used as a tumor marker in various cancers such as NK lymphomas and Merkel cell carcinoma. NCAM is expressed on most neuroectodermal derived lines, tissues, and neoplasms such as retinoblastoma, medulloblastoma, astrocytoma, and neuroblastoma. It is also expressed on some mesodermally derived tumors such as rhabdomyosarcoma and also on natural killer cells.

<u>Catalog Number</u>	<u>Volume</u>
A00121-C	1 ml

CD57 (HNK-1); Clone NK-1 (Concentrate)

Species: Mouse
 Clone: NK-1
 Isotype: Mouse IgM, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, spleen, lymph node.
 Specificity: The NK1 antibody clone recognizes the glycoepitope referred to as both CD57 and HNK1.

<u>Catalog Number</u>	<u>Volume</u>
A00117-C.1	0.1 ml
A00117-C	1 ml



Chromogranin A; Clones LK2H10 & PHE5 (Concentrate)

Species: Mouse
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5).
 Clone: LK2H10 & PHE2
 Isotype: IgG1, Kappa (Both)
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Others not known
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00160-C.1	0.1 ml
A00160-C	1 ml

Cyclin D1; Clone DCS-6 (Concentrate)

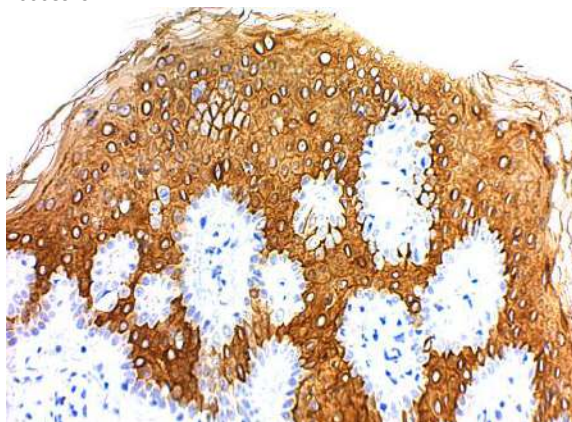
Species: Mouse
 Designation: Mouse Monoclonal
 Clone: DCS-6
 Isotype: IgG2a, Kappa
 Species Reactivity: Human.
 Positive Control: Mantle cell lymphoma and breast carcinoma.
 Cellular Localization: Nuclear.
 Specificity: The DCS-6 antibody is specific for cyclin D1, and has been key in elucidating the function and involvement of cyclin D1 in oncogenesis. Results with this antibody have helped to show that Cyclin D1 is over expressed in many different kinds of cancer. For example, about 50-70% of mantle cell lymphomas and 40% of breast carcinomas are cyclin D1.

<u>Catalog Number</u>	<u>Volume</u>
A00111-C	1 ml

Cytokeratin 10; Clone DE-K10 (Concentrate)

Species: Mouse
 Immunogen: Cytoskeletal preparation extracted from human ectocervical epithelium.
 Clone: DE-K10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Dog and Cat. Others not known.
 Positive Control: Esophagus or Tonsil. A431, HeLa, MCF7 cells.
 Specificity: This antibody recognizes a protein of 56.5kDa identified as Cytokeratin 10.

<u>Catalog Number</u>	<u>Volume</u>
A00089-C.1	0.1 ml
A00089-C	1 ml

**Cytokeratin 19; Clone A53-B/A2.26 (Concentrate)**

Species: Mouse
 Clone: A53-B/A2.26 (Ks 19.1)
 Isotype: Mouse IgG2a, Kappa
 Species Reactivity: Human. Reacts weakly with mouse, rat and guinea pig Cytokeratin 19.
 Positive Control: Skin, Breast carcinoma, Colon carcinoma, Thyroid.
 Specificity: This antibody reacts with the rod domain of human Cytokeratin 19, a polypeptide of 40kDa. The antibody recognition epitope maps between amino acid 312-335. This antibody reacts with the MCF-7 cells which are known to contain Cytokeratin 19.

<u>Catalog Number</u>	<u>Volume</u>
A00122-C.1	0.1 ml
A00122-C	1 ml

Cytokeratin 6; Clone EP67 (Concentrate)

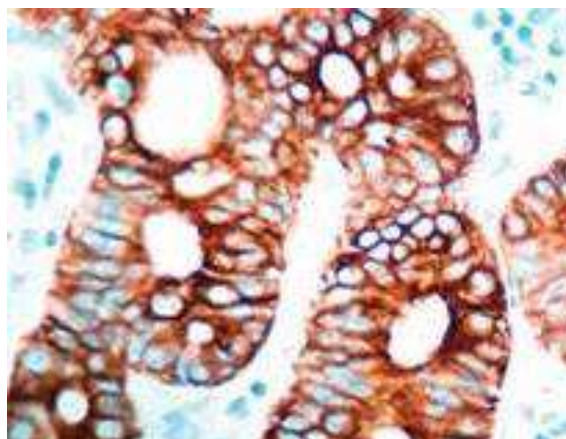
Species: Rabbit
 Designation: Rabbit Monoclonal
 Clone: EP67
 Isotype: IgG
 Species Reactivity: Human. Others not tested.
 Positive Control: Skin for normal tissue and Mesothelioma for abnormal tissue.
 Specificity: Cytokeratin 6 is expressed in many non-keratinizing stratified squamous epithelia of large cell carcinoma and pulmonary squamous cell carcinomas. It can also be found on stratified epithelia including: basal layer of epidermis, the outer root sheath of hair follicles, esophagus, oral mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands.

<u>Catalog Number</u>	<u>Volume</u>
A00140-C.1	0.1 ml
A00140-C	1 ml

Cytokeratin 7; Clone OV-TL12/30 (Concentrate)

Species: Mouse
 Clone: OV-TL12/30
 Isotype: IgG1
 Species Reactivity: Human. Others not tested.
 Positive Control: Carinoma of Ovary, Lung, Cervix or Breast.
 Specificity: Cytokeratin 7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder and female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte and squamous epithelium.

<u>Catalog Number</u>	<u>Volume</u>
A00142-C.1	0.1 ml
A00142-C	1 ml



Cytokeratin 8; Clone K8/383 (Concentrate)

Species: Mouse
 Clone: K8/383
 Isotype: IgG1
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: MCF-7 or A431 cells. Human Skin, Colon, Lung or Breast carcinoma.
 Specificity: Cytokeratin 8 Antibody belongs to the type II (or B or Basic) subfamily of high molecular weight Cytokeratins and exists in combination with Cytokeratin 18. Cytokeratin 8 is primarily found in the non-squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas. It is absent in squamous cell carcinomas.

Catalog Number	Volume
A00136-C	1 ml

Cytokeratin, Multi (Acidic); Clone AE1 (Concentrate)

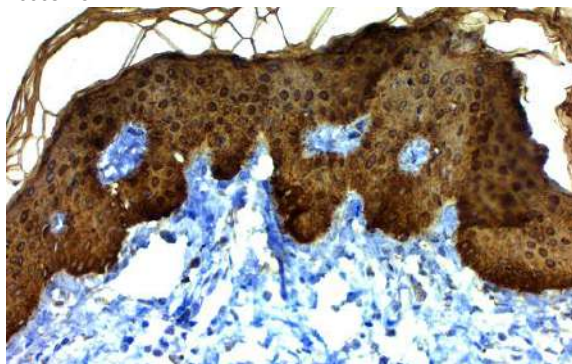
Species: Mouse Monoclonal
 Clone: AE-1
 Isotype: IgG1
 MW: 56.5, 50, 50', 48 and 40 kD
 Species Reactivity: Human, Monkey, Cow, Rabbit, Mouse, Rat, Chicken. Others not tested.
 Positive Control: Human epidermal keratin or carcinoma. HT29 cells.
 Specificity: Monoclonal antibody AE1 recognizes the 56.5, 50, 50', 48, and 40kDa keratins of the acidic subfamily. Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI<5.7) and basic (pI>6.0) subfamilies. The acidic keratins have molecular weights of 56.5, 55, 51, 50, 50', 48, 46, 45, and 40kDa.

Catalog Number	Volume
A00051-C.1	0.1 ml
A00051-C	1 ml

Cytokeratin, Multi (Basic); Clone AE-3 (Concentrate)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-3
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Epithelial cells, skin or adenocarcinomas.
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).

Catalog Number	Volume
A00052-C.1	0.1 ml
A00052-C	1 ml

**Cytokeratin, Pan; Clones AE1 & AE3 (Concentrate)**

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-1 & AE-3
 Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Skin, Adeno- or Squamous carcinomas.
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

Catalog Number	Volume
A00152-C.1	0.1 ml
A00152-C	1 ml

Desmin; Clone D33 (Concentrate)

Species: Mouse
 Immunogen: Proteins from human Leiomyoma.
 Clone: D33
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat, Mouse, Hamster, Chicken. Others not known.
 Positive Control: Muscle, Uterus, Leiomyosarcoma or SJRH30 cells.
 Specificity: Desmin, Clone D33 detects cells of normal smooth, skeletal, and cardiac muscles. This antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

Catalog Number	Volume
A00007-C.1	0.1 ml
A00007-C	1 ml

Epithelial Membrane Antigen; Clone E29 (Concentrate)

Species: Mouse
 Immunogen: Delipidated extract of human milk fat globule membranes
 Clone: E29
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.
 Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of EMA (MUC1). This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to EMA (MUC1) is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Catalog Number	Volume
A00008-C.1	0.1 ml
A00008-C	1 ml

Estrogen Receptor; Clone 11D5 (Concentrate)

Species: Mouse
 Clone: 11D5
 Isotype: IgG1, Kappa
 Species Reactivity: Human
 Positive Control: Breast Carcinoma.
 Cellular Localization: Nuclei.

Specificity: This antibody is specific to estrogen receptor, which is associated with superior prognosis and a better response to endocrine therapy. The nuclei of the estrogen receptor positive cells stain very strongly with this antibody, without any staining in the cytoplasm. However, on cryostat sections a positive staining of estrogen receptor in the nucleus as well as cytoplasm can be seen. This antibody can be used for gel shift assay,

immunoprecipitation, immunohistochemistry and western blotting.

<u>Catalog Number</u>	<u>Volume</u>
A00106-C	1 ml

Estrogen Receptor; Clone ERa078 (Concentrate)

Species: Mouse
 Clone: ERa078
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Breast carcinoma.
 Specificity: This antibody is specific for estrogen receptor.

<u>Catalog Number</u>	<u>Volume</u>
A00128-C	1 ml

GFAP; Clone ASTRO/789 (Concentrate)

Species: Mouse
 Immunogen: Recombinant GFAP protein
 Clone: ASTRO/789
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.
 Positive Control: Brain or Astrocytoma.
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.

<u>Catalog Number</u>	<u>Volume</u>
A00158-C.1	0.1 ml
A00158-C	1 ml

Insulin; Clone 2D11-H5 (Concentrate)

Species: Mouse
 Clone: 2D11-H5
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human, Pig, Cow.
 Positive Control: Pancreatic tissue.
 Specificity: Detects insulin and insulin producing cells.

<u>Catalog Number</u>	<u>Volume</u>
A00114-C	1 ml

Kappa Light Chain; Clone KLC264 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Ig kappa chain
 Clone: KLC264
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.

<u>Catalog Number</u>	<u>Volume</u>
A00156-C.1	0.1 ml
A00156-C	1 ml

Kappa; Clone L1C1 (Concentrate)

Species: Mouse
 Clone: L1C1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil.
 Specificity: The kappa light chain antibody recognizes the kappa light chain of immunoglobulin.

<u>Catalog Number</u>	<u>Volume</u>
A00113-C.1	0.1 ml
A00113-C	1 ml

Lambda Light Chain; Clone LcN-2 (Concentrate)

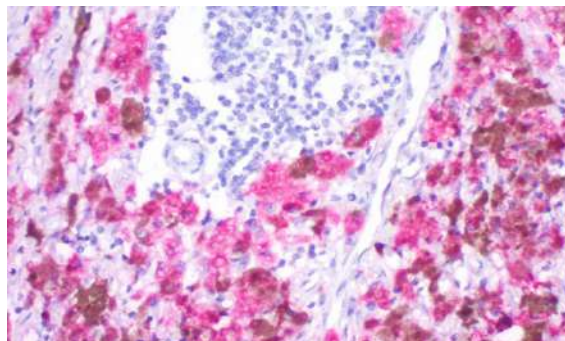
Species: Mouse
 Immunogen: Purified human IgG
 Clone: LcN-2
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.

<u>Catalog Number</u>	<u>Volume</u>
A00155-C.1	0.1 ml
A00155-C	1 ml

MART-1; Clone M2-7C10 (Concentrate)

Species: Mouse
 Clone: M2-7C10
 Isotype: Mouse IgG2b, Kappa
 Species Reactivity: Human. Clone M2-7C10 does not react with mouse or rat.
 Positive Control: Metastatic melanoma in lymph nodes.
 Specificity: The clone M2-7C10 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00115-C	1 ml



MART-1; Clone M2-9E2 (Concentrate)

Species: Mouse
 Clone: M2-9E2
 Isotype: Mouse IgG2b, Kappa
 Species Reactivity: Human, Mouse, Rat.
 Positive Control: Metastatic melanoma in lymph nodes.
 Specificity: The clone M2-9E2 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00116-C	1 ml

MART-1; Clones M2-7C10 & M2-9E3 (Concentrate)

Species: Mouse
 Clones: M2-7C10 & M2-9E3
 Isotype: Mouse IgG2b, kappa
 Species Reactivity: Human.
 Positive Control: Human Melanoma.
 Specificity: MART-1 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00133-C	1 ml

Melanoma Associated Antigen; Clone KBA.62 (Concentrate)

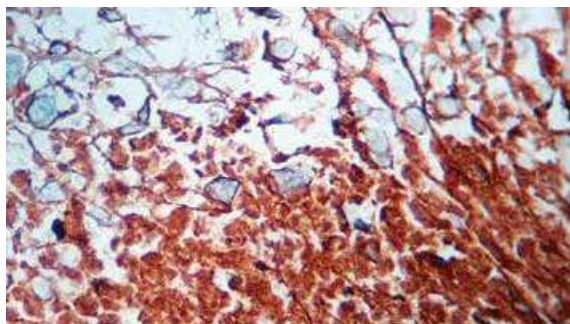
Species: Mouse
 Immunogen: Human KAL cells derived from lymph node metastasis of malignant melanoma
 Clone: KBA.62
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Melanoma
 Cellular Localization: Cell Surface
 Specificity: KBA.62 is a novel anti-melanoma antibody. It reacts positively against melanocytic tumors but not against other tumors, thus demonstrating specificity and sensitivity. Moreover, it reacts positively against junctional nevus cells but not intradermal nevi, and against fetal melanocytes but not normal adult melanocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00153-C.1	0.1 ml
A00153-C	1 ml

Melanoma; Clone HMB45 (Concentrate)

Species: Mouse
 Clone: HMB45
 Isotype: Mouse IgG1/ Kappa
 Species Reactivity: Human. Does not react with dog and rat.
 Positive Control: Human Melanoma
 Specificity: HMB45 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00019-C	1 ml

**Melanoma; Pan (Concentrate)**

Species: Mouse
 Clones: MART-1; Clone M2-7C10, MART-1; Clone M2-9E3, Tyrosinase; Clone T311, Melanoma: HMB45.
 Isotype: Mouse IgG1
 Species Reactivity: Human.
 Positive Control: Human Melanoma
 Specificity: Melanoma; Pan is a broad spectrum marker for metastatic melanoma.

<u>Catalog Number</u>	<u>Volume</u>
A00134-C.1	0.1 ml
A00134-C	1 ml

MUC5AC (Gastric Mucin); Clone 45M1 (Concentrate)

Species: Mouse
 Clone: 45M1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human, Monkey, Cat, Chicken, Hedgehog, Mouse, Pig, Rabbit, Rat. Does not react with cow.
 Positive Control: Stomach.
 Specificity: MUC5AC is expressed in airway and gastric epithelial cells and highly expressed in colorectal carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00124-C.1	0.1 ml
A00124-C	1 ml

Napsin A; Clones NAPSA/1238 & NAPSA/1239 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Napsin-A protein fragment (aa 189-299). Exact sequence is proprietary.
 Clones: NAPSA/1238 & NAPSA/1239
 Isotype: IgG1, Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Lung adenocarcinoma.
 Specificity: This antibody is specific for a pepsin-like aspartic proteinase identified as Napsin A.

<u>Catalog Number</u>	<u>Volume</u>
A00131-C.1	0.1 ml
A00131-C	1 ml

Neurofilament; Clone 2F11 (Concentrate)

Species: Mouse
 Clone: 2F11
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rabbit, Cat, Mouse and Rat. Does not react with dog.
 Positive Control: Brain

Specificity: This antibody stains neurons (axons) of the central and peripheral nervous system. It is useful for the identification of tumors with neuronal differentiation viz. Neuroblastomas, Ganglioneuromas, Pheochromocytomas and Esthesioblastomas. The antibody cross-reacts with the NF-equivalent protein in mouse, rabbit, rat and swine. The antibody can also be utilized to discriminate between Hirschsprung's disease and allied enteric nervous system malformations.

<u>Catalog Number</u>	<u>Volume</u>
A00020-C	1 ml

p21WAF1; Clone WA-1 (Concentrate)

Species: Mouse
 Clone: WA-1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Colon Carcinoma.
 Specificity: The antibody is highly specific to p21; it does not cross-react with other closely related mitotic inhibitors. Specificity validations include antibody recognition of recombinant p21 by western blot (Koike, 2011) and in direct ELISA assays (Rossner, 2002 & 2007). Although the exact epitope for the antibody has not been mapped, the epitope appears to be different from those recognize by other p21 antibody clones.

<u>Catalog Number</u>	<u>Volume</u>
A00125-C.1	0.1 ml
A00125-C	1 ml

p53; Clone BP53-12 (Concentrate)

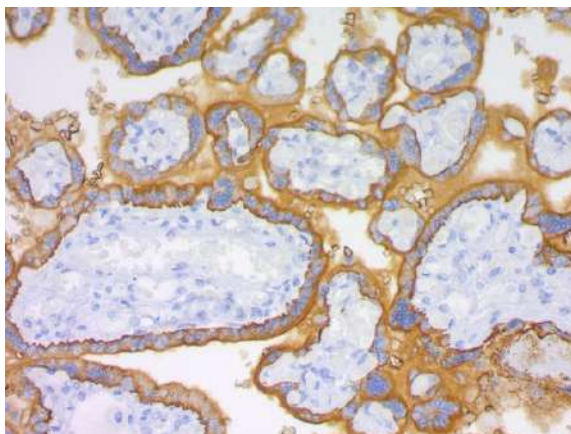
Species: Mouse
 Clone: BP53-12
 Isotype: IgG2a, Kappa
 Species Reactivity: Human. Will not cross-react with mouse or rat.
 Cellular Localization: Nuclear.
 Specificity: This p53 antibody recognizes a 53kDa protein, which is identified as p53 suppressor gene product. The antibody reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. The epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.

<u>Catalog Number</u>	<u>Volume</u>
A00109-C.1	0.1 ml
A00109-C	1 ml

Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PLAP protein
 Clone: ALP/870
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2 cells. Placenta or seminoma.
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.

<u>Catalog Number</u>	<u>Volume</u>
A00154-C.1	0.1 ml

**Renal Cell Carcinoma (RCC); Clone 66.4.C2 (Concentrate)**

Species: Mouse
 Clone: 66.4.C2
 Isotype: Mouse IgG2b, Kappa
 Species Reactivity: Human, Horse. Others not tested.
 Positive Control: Kidney.
 Specificity: The actual protein recognized by RCC-ma antibody is a 200 kDa glycoprotein (gp200) expressed in renal epithelial cells. In normal tissue, the renal cell carcinoma/RCC-ma/gp200 antibody stains the brush border of proximal renal tubules in human kidneys. Gp200 is also expressed in some non-kidney tissues including breast tubules and ducts, the surface of epididymal tubular epithelia, and the colloid of thyroid follicles. However because of the reported high expression of gp200 in renal cell carcinoma, gp200 is most commonly referred to as Renal Cell Carcinoma Marker.

<u>Catalog Number</u>	<u>Volume</u>
A00118-C.1	0.1 ml
A00118-C	1 ml

S-100; Clone 4C4.9 (Concentrate)

Species: Mouse Monoclonal
 Clone: 4C4.9
 Isotype: IgG2a
 MW: 21-24 kD
 Species Reactivity: Human, Cow, Mouse
 Positive Control: Melanoma or Schwannoma.

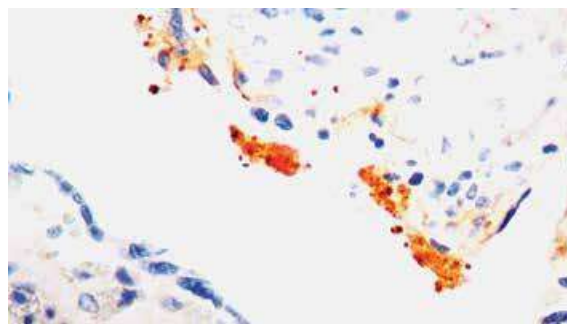
Specificity: Recognizes proteins of 21-24kDa, identified as the A and B subunits of S100 protein. S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100A is composed of an alpha and beta chain whereas S100B is composed of two beta chains. Antibody to S100 stains Schwannomas, ependymomas, astroglomas, almost all benign and malignant melanomas and their metastases. S100 protein is also expressed in the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes. S100 protein is highly soluble and may be eluted from frozen tissue during staining.

<u>Catalog Number</u>	<u>Volume</u>
A00087-C.1	0.1 ml
A00087-C	1 ml

Secretory Component; Clone SC05 (Concentrate)

Species: Mouse
 Clone: SC05
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: Breast carcinoma, Lung, Stomach.
 Specificity: This antibody reacts with both free and bound secretory component to secretory IgA.

<u>Catalog Number</u>	<u>Volume</u>
A00127-C	1 ml



SOX10; Clone SOX10/991 (Concentrate)

Species: Mouse

Immunogen: Recombinant human SOX10 protein fragment (aa115-269) (exact sequence is proprietary).

Clone: SOX10/991

Isotype: IgG2b, Kappa.

Species Reactivity: Human and Mouse. Others-not known.

Positive Control: HepG2 cells, Melanoma, breast carcinomas, gliomas.

Specificity: Recognizes a protein of ~55kDa, identified as SOX10.

This antibody does not cross-react with other members of the SOX-family.

<u>Catalog Number</u>	<u>Volume</u>
A00161-C.1	0.1 ml
A00161-C	1 ml

Thyroglobulin; Clone 2H11 (Concentrate)

Species: Mouse

Clone: 2H11

Isotype: IgG1, Kappa

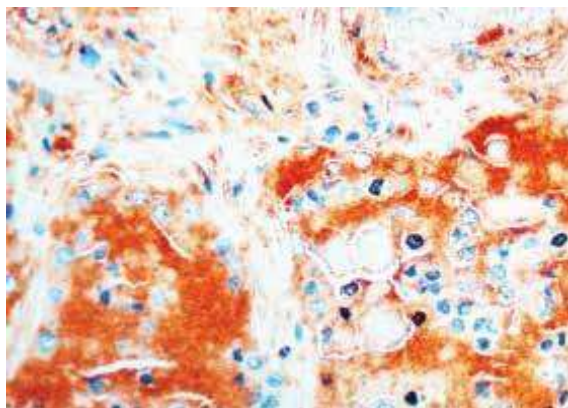
Species Reactivity: Human

Cellular Localization: Cytoplasmic

Specificity: Thyroglobulin is a 660 kDa dimeric preprotein with multiple glycosylation sites is produced by and processed within the thyroid gland to produce the hormone thyroxine and triiodothyronine. Prior to forming dimers, thyroglobulin monomers undergo conformation maturation in the endoplasmic reticulum. Thyroglobulin dimerization as well as transport of thyroglobulin to the Golgi complex is calcium dependent. Thyroglobulin defects resulting from defective dimer formation and export to the Golgi is thought to cause some types of goiter. Antibody against thyroglobulin may be produced by individuals with other diseases arising from the gland such as Hashimoto's or Graves disease. Hence the presence of thyroglobulin autoantibodies can help to identify disease.

Antibody to thyroglobulin has been shown to be useful for the identification of papillary and follicular thyroid carcinoma; thyroglobulin antibody positive lesions are of thyroidal origin. Carcinomas of nonthyroidal origin do not express thyroglobulin and hence are thyroglobulin antibody negative. It is important to note though that not every type of thyroidal lesion is thyroglobulin antibody positive, a number of forms are negative. Hence a negative result does not necessarily rule out that a given lesion or metastasis originated from the thyroid gland.

<u>Catalog Number</u>	<u>Volume</u>
A00108-C	1 ml

**TTF-1; Clone 8G7G3/1 (Concentrate)**

Species: Mouse

Designation: Mouse Monoclonal

Clone: 8G7G3/1

Isotype: IgG1

Species Reactivity: Human. Others not tested.

Positive Control: Adenocarcinoma of the Lung or Thyroid.

Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

<u>Catalog Number</u>	<u>Volume</u>
A00144-C.1	0.1 ml
A00144-C	1 ml

Tyrosinase; Clone T311 (Concentrate)

Species: Mouse

Clone: T311

Isotype: Mouse IgG1

Species Reactivity: Human.

Positive Control: Human Melanoma

Specificity: Tyrosinase has been shown to be a very specific marker for melanomas, not cross reacting with other tumors or normal tissues tested.

<u>Catalog Number</u>	<u>Volume</u>
A00132-C	1 ml

Uchl1 (PGP9.5); Clone 31A3 (Concentrate)

Species: Mouse

Clone: 31A3

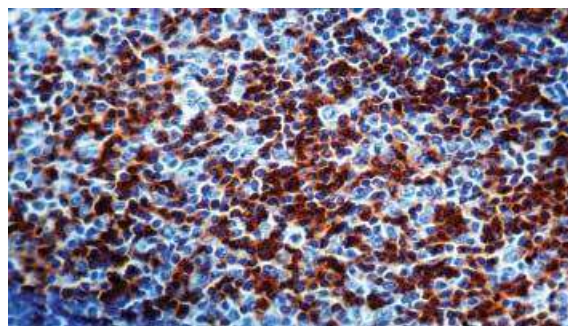
Isotype: Mouse IgG1, Kappa

Species Reactivity: Cow, Human, Mouse, Pig, Rat.

Positive Control: Brain.

Specificity: The Uchl1 clone 31A3 antibody stains neuronal cell bodies and axons in the central and peripheral nervous systems as well as small nerve fibers in peripheral tissues, including epidermal tissues (Day & Thompson, 2010). The antibody also stains neuroendocrine cells in the kidney, pituitary, thyroid, pancreas, gastrointestinal tract, and tumors of the diffuse neuroendocrine system. This antibody has also identified Uchl1 expression in renal tubule spermatogonia, testis, ovary, and both pregnant and non-pregnant corpus luteum.

<u>Catalog Number</u>	<u>Volume</u>
A00120-C	1 ml



Multiplex Cocktail

Regulatory Status: IVD

CDX-2 & CEA Multiplex Cocktail; Clones EP25 & COL-1 (Ready-To-Use)

Species: Rabbit and Mouse
Designation: Cocktail of Rabbit and Mouse Monoclonal Antibodies to CDX-2 and CEA.
Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2. BALB/C mice were injected with Human colon carcinoma cell extracts (CEA).
Mol. Weight: Unknown
Clone: EP25 & COL-1
Isotype: Rabbit IgG and Mouse IgG1, respectively.
Species Reactivity: Human
Positive Control: CDX-2: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.
CEA: Adenocarcinoma of colon, intestine, ovary, lung, cervix, gallbladder, stomach.
Specificity: CDX-2 expression is restricted to nuclear staining in positive cells while CEA expression is restricted mostly to the lumen of colorectal crypts. The CEA antibody (COL-1) shows no reaction with a variety of normal tissues. CEA is not found in benign glands, stroma, or malignant prostatic cells. CEA positivity is seen in adenocarcinomas from the lung, colon, stomach, esophagus, gallbladder, urachus, salivary gland, ovary, and endocervix.

Catalog Number	Volume
A00150-0002	1 ml
A00150-0007	7 ml
A00150-0025	25 ml

CDX2 & Cytokeratin 7 Multiplex Cocktail; Clones EP25 & OV-TL12/30 (Ready-To-Use)

Species: Rabbit and Mouse
Designation: Cocktail of Rabbit and Mouse monoclonal antibodies to CDX-2 and CK7.
Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2. BALB/C mice were injected with OTN11-ovarian cell carcinoma cell line.
Mol. Weight: Unknown
Clone: Clones EP25 and OV-TL12/30
Isotype: Rabbit IgG and Mouse IgG1, respectively.
Species Reactivity: Human
Positive Control: CDX-2: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.
CK7: Carcinoma of ovary, lung, cervix, or breast.
Specificity: CDX-2 expression is restricted to nuclear staining in positive cells while CK7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder, and the female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte, and squamous epithelium.

Catalog Number	Volume
A00148-0002	2 ml
A00148-0007	7 ml
A00148-0025	25 ml

TTF-1 & Cytokeratin 5 Multiplex Cocktail; Clones 8G7G3/1 & EP42 (Ready-To-Use)

Species: Mouse & Rabbit
Designation: Mouse Monoclonal & Rabbit Monoclonal
Clones: 8G7G3/1 & EP42
Isotype: IgG1 & IgG
Species Reactivity: Human. Others not tested.
Positive Control: Adenocarcinoma of the Lung or Thyroid for TTF-1. Skin for normal tissue and Mesothelioma for abnormal tissue for Cytokeratin 5.
Principle: Multiplex IHC staining allows simultaneous testing of two or more analytes on a single tissue section utilizing different colors for each antigenic target.
Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.
Cytokeratin 5 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.
This Multiplex cocktail of TTF-1 and Cytokeratin 5 produces two-color high contrast staining for differentiating primary adenocarcinoma of the Lung from Metastatic Carcinomas of the breast and Malignant Mesothelioma.

Catalog Number	Volume
A00145-0002	2 ml
A00145-0007	7 ml
A00145-0025	25 ml

Polyclonal Ready-to-Use

Regulatory Status: IVD

Alpha1-Antichymotrypsin

Species: Rabbit Polyclonal
Clone: Polyclonal
Species Reactivity: Human. Shows no cross-reactivity with horse, sheep, swine, goat, cow, dog, cat, chicken, rat, mouse, mink, kangaroo or Guinea pig.
Positive Control: Tonsil

Specificity: This antibody recognizes macrophages and monocytes in human colon, tonsil and skin.

Catalog Number	Volume
A20073	2 ml
A00073	6 ml
A00073.0025	25 ml

Alpha1-Antitrypsin

Species: Rabbit Polyclonal
Clone: Polyclonal

Species Reactivity: Human and Swine. Stains weakly with horse, dog and mink, and shows no cross-reactivity with sheep, goat, cow, cat, chicken, rat, mouse, kangaroo or Guinea pig.

Positive Control: Tonsil

Specificity: This antibody recognizes macrophages in human colon and tonsil.

<u>Catalog Number</u>	<u>Volume</u>
A20074	2 ml
A00074	6 ml
A00074.0025	25 ml

Alpha1-Fetoprotein (AFP)

Species: Rabbit Polyclonal
Clone: Polyclonal
Species Reactivity: Human

Specificity: This antibody reacts with alpha-1-fetoprotein. A positive staining in the hepatocytes of fetal tissue was observed. This antibody does not react with other cell or tissue types.

<u>Catalog Number</u>	<u>Volume</u>
A20058	2 ml
A00058	6 ml
A00058.0025	25 ml

Calcitonin

Species: Rabbit
Clone: Polyclonal

Specificity: This antibody reacts with the mu-chains of human IgM. Nonspecific antibodies have been removed by solid-phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A20080	2 ml
A00080	6 ml
A00080.0025	25 ml

CD3, T-Cell; Polyclonal

Species: Rabbit Polyclonal
Clone: Polyclonal
Species Reactivity: Human
Positive Control: Tonsil

Specificity: This antibody reacts with intracytoplasmic portion of the CD3 antigen on the T cells. It stains T cells in cortex as well as medulla of the thymus and lymphoid tissues. This antibody also labels T cell neoplasm, malignant histiocytes and in Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
A20030	2 ml
A00030	6 ml
A00030.0025	25 ml

c-erbB-2 Oncoprotein

Species: Rabbit Polyclonal
Clone: Polyclonal

MW: 190 kD

Species Reactivity: Human

Specificity: This antibody reacts with the c-erbB-2 oncoprotein, a 190 kD protein. The proto-oncogene for c-erbB-2 is located on the human chromosome 17, band 21.

<u>Catalog Number</u>	<u>Volume</u>
A20031	2 ml
A00031	6 ml
A00031.0025	25 ml

Factor VIII Related Antigen

Species: Rabbit Polyclonal
Clone: Polyclonal
MW: 270 kD
Species Reactivity: Human
Positive Control: Blood vessels in skin or intestine

Specificity: Recognizes a multimeric glycoprotein of 270kDa, identified as factor VIII related antigen or von Willebrand factor. This protein has functional binding domains to platelet glycoprotein Ib, glycoprotein IIb/IIIa, collagen and heparin. Von Willebrand factor is synthesized by endothelial cells and stored in the Weibel-Palade granules. It mediates platelet adhesion to injured vessel walls and serves as a carrier and stabilizer for coagulation factor VIII. Histo-Line's antibody reacts specifically with the endothelial cells of normal, reactive, and neoplastic blood and lymphatic vessels and shows a finely granular cytoplasmic staining. It also reacts with endocardium, platelets and megakaryocytes. Von Willebrand factor is one of the most useful markers to identify endothelial (or megakaryocytic) lineage of neoplasms. However, because not all endothelial cells synthesize (or store) this molecule, about 30% of tumors of vascular origin fail to stain for factor VIII related antigen, regardless of whether they are benign or malignant.

<u>Catalog Number</u>	<u>Volume</u>
A20059	2 ml
A00059	6 ml
A00059.0025	25 ml

HbcAg - Hepatitis B Virus Core; Polyclonal

Species: Rabbit Polyclonal
Clone: Polyclonal
Species Reactivity: Human

Specificity: This antibody reacts in the nuclei of the liver cells of the Hepatitis type B virus infected patients. However, occasional staining may also be seen in the perinuclear cytoplasm of the infected cells.

<u>Catalog Number</u>	<u>Volume</u>
A20060	2 ml
A00060	6 ml
A00060.0025	25 ml

IgA

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human

Specificity: This antibody reacts with alpha-chains of human Ig A. This antibody has been absorbed to a very high level of specificity.

<u>Catalog Number</u>	<u>Volume</u>
A20061	2 ml
A00061	6 ml
A00061.0025	25 ml

IgG

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human

Specificity: This antibody reacts with gamma-chains of human IgA. Nonspecific antibodies have been removed by solid-phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A20062	2 ml
A00062	6 ml
A00062.0025	25 ml

IgM

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human

Specificity: This antibody reacts with the m chains of human IgM. Nonspecific antibodies have been removed by solid-phase absorption.

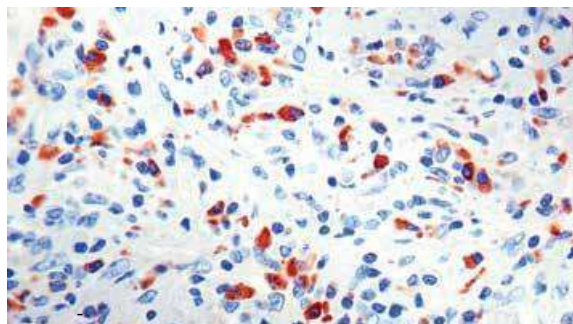
<u>Catalog Number</u>	<u>Volume</u>
A20063	2 ml
A00063	6 ml
A00063.0025	25 ml

Kappa Light Chain

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human

Specificity: This antibody reacts with free as well as bound kappa light chains. Contaminating antibodies have been removed by solid phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A20064	2 ml
A00064	6 ml
A00064.0025	25 ml

**Ki-67 Antigen; Polyclonal (Ready-To-Use)**

Species: Rabbit
 Immunogen: Synthetic peptide from 62 base pair region of the human Ki-67 antigen.
 Clone: Polyclonal
 Species Reactivity: Human.
 Positive Control: Tonsil or Breast Carcinoma.
 Specificity: This antibody reacts with a nuclear antigen present in proliferating human cells.

<u>Catalog Number</u>	<u>Volume</u>
A00095-0002	2 ml
A00095-0007	7 ml
A00095-0025	25 ml

Lambda, Light Chains; Polyclonal (Ready-To-Use)

Species: Rabbit
 Immunogen: Lambda light chain isolated from pooled urine of patients with Bence Jones proteinuria.
 Clone: Polyclonal
 Isotype: N/A
 Species Reactivity: Human
 Positive Control: Tonsil
 Specificity: This antibody reacts with free as well as bound lambda light chains. Contaminating antibodies have been removed by solid phase absorption.

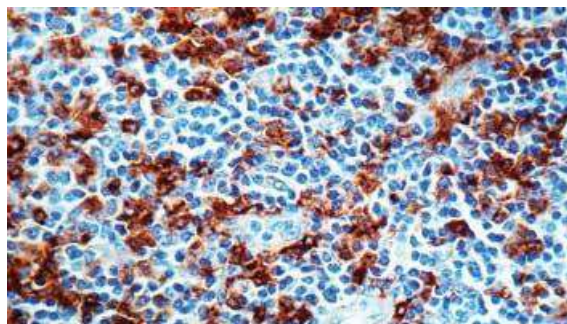
<u>Catalog Number</u>	<u>Volume</u>
A00065-0002	2 ml
A00065-0007	7 ml
A00065-0025	25 ml

Lysozyme (Muramidase); Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human, Baboon, Monkey, Pig, Cat, Dog, Mouse and Rat.
 Positive Control: Tonsil, colon or skin

Specificity: This polyclonal antibody recognizes a protein, identified as lysozyme, also known as muramidase. This antibody was adsorbed with human plasma and urine proteins to remove the cross-reacting antibodies. Lysozymes synthesized predominantly in reactive histiocytes rather than in resting, unstimulated phagocytes. It labels myeloid cells, histiocytes, granulocytes, macrophages, and monocytes. This antibody is helpful in the identification of myeloid or monocytic nature of acute leukemia.

<u>Catalog Number</u>	<u>Volume</u>
A00033-0002	2 ml
A00033-0007	7 ml
A00033-0025	25 ml



Myoglobin

Species: Rabbit Polyclonal
Clone: Polyclonal
Species Reactivity: Human

Specificity: This antibody reacts with human myoglobin. The antibody stains strongly with the skeletal and cardiac muscles. No non-specific staining with other tissues has been observed.

<u>Catalog Number</u>	<u>Volume</u>
A20066	2 ml
A00066	6 ml
A00066.0025	25 ml

p40 (DeltaNp63); Polyclonal (Ready-To-Use)

Species: Rabbit
Clone: Polyclonal
Isotype: Rabbit IgG
Species Reactivity: Human.
Cellular Localization: Nuclear.
Specificity: The new marker p40 (DeltaNp63) is highly specific for squamous basal cells.

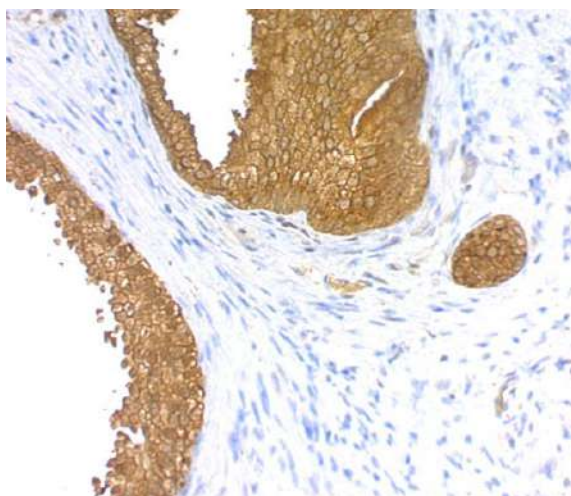
<u>Catalog Number</u>	<u>Volume</u>
A00112-0002	2 ml
A00112-0007	7 ml
A00112-0025	25 ml

PSA (Prostate Specific Antigen)

Species: Rabbit Polyclonal
Clone: Polyclonal
MW: 53 kD
Species Reactivity: Human

Specificity: The antigen used for immunization has been isolated from human seminal fluid. The antibody is well-suited for immunohistochemistry. The performance in ELISA has not been fully investigated. Primary and metastatic prostatic carcinomas show positive staining for PSA, while non-prostatic malignancies do not stain.

<u>Catalog Number</u>	<u>Volume</u>
A20035	2 ml
A00035	6 ml
A00035.0025	25 ml



S-100; Polyclonal (Ready-To-Use)

Species: Rabbit
Clone: Polyclonal
Species Reactivity: Human

Specificity: S-100 from ox brain was used for immunization. This antibody reacts strongly with human S100-A and B. Extensive testing shows that this antibody gives strictly specific S-100 labeling of cryostat as well as formalin-fixed, paraffin-embedded section of human tissue. This antibody labels glial cells in the brain and ependymal cells. Moreover, Schwann cells of the peripheral nervous system are positive. Among tumors of the human central and peripheral nervous system, a positive reaction is seen in schwannomas and ependymomas, as well as in different grades of astroglomas including glioblastomas. A large proportion of cells in human tumors originating from different salivary glands are stainable with anti-S-100. S-100 is present in almost all human benign and malignant melanocytic tumors of the skin and in metastases of human malignant

<u>Catalog Number</u>	<u>Volume</u>
A00036-0002	2 ml
A00036-0007	7 ml
A00036-0025	25 ml

Ubiquitin

Species: Rabbit Polyclonal
Clone: Polyclonal
Species Reactivity: Human

Specificity: This antibody detects the presence of intracellular ubiquitinated filamentous inclusions in the periphery of senile plaques and neurofibrillary tangles in Alzheimer's disease and Lewy bodies in Parkinson's disease.

<u>Catalog Number</u>	<u>Volume</u>
A20038	2 ml
A00038	6 ml
A00038.0025	25 ml

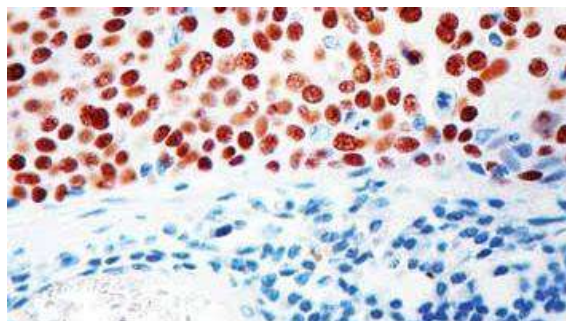
Polyclonal Concentrates

Regulatory Status: IVD

p40 (DeltaNp63); Polyclonal (Concentrate)

Species: Rabbit
Clone: Polyclonal
Isotype: Rabbit IgG
Species Reactivity: Human.
Cellular Localization: Nuclear.
Specificity: The new marker p40 (DeltaNp63) is highly specific for squamous basal cells.

<u>Catalog Number</u>	<u>Volume</u>
A00112-C	1 ml



Transport Media

CytoPort, Cytology Transport Media

This reagent is intended for use as a transport media for mammalian cells for subsequent testing. Samples may be transported at room temperature.

<u>Catalog Number</u>	<u>Volume</u>
CTM500	500 ml
CTM999	1000 ml

Michel's Transport Fluid

Michel's Transport Fluid is intended for use as a transport media of specimens (such as renal biopsies and lymph nodes) for immunofluorescence studies. Samples may remain in media for up to 5 days at room temperature. This reagent is not a fixative and is not suitable for transporting live cells for flow cytometry. Prior to processing, specimens should be washed in 3 changes of Michel's Transport Wash Buffer (cat.# MTW) for 10 minutes each.

<u>Catalog Number</u>	<u>Volume</u>
MTF500	500 ml
MTF999	1000 ml
MTF-10000	10 L
MTF-20000	20 L

Michel's Transport Wash Buffer

This reagent is intended for use as a wash buffer for Michel's Transport Fluid. Michel's Transport Fluid is intended for use as a transport media of specimens (such as renal biopsies and lymph nodes) for immunofluorescence studies. Samples may remain in media for up to 5 days at room temperature. This reagent is not a fixative and is not suitable for transporting live cells for flow cytometry. Prior to processing, specimens should be washed in 3 changes of Michel's Transport Wash Buffer for 10 minutes each.

<u>Catalog Number</u>	<u>Volume</u>
MTW500	500 ml
MTW999	1000 ml
MTW-10000	10 L
MTW-20000	20 L

Nuclear Stains

Bluing Reagent

Is a pH-controlled solution for complete, effective bluing of hematoxylin in histological and cytological procedures.

<u>Catalog Number</u>	<u>Volume</u>
BRT500	500 ml
BRT999	1000 ml
BRT3800	1 Gal.

Differentiating Solution (Acid Alcohol) - 95%

May be used in the removal of excess hematoxylin stain. Reagents contain 3% (v/v) hydrochloric acid in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
DSN500	500 ml
DSN999	1000 ml

Hematoxylin, For Automation

Produces a crisp blue nuclei. Hematoxylin, For Automation has been specifically formulated for situations in which a lighter blue nuclei are desired (IHC, etc.). This reagent is ideal for use with autostainers.

<u>Catalog Number</u>	<u>Volume</u>
HAQ500	500 ml
HAQ999	1000 ml

Hematoxylin, Mayer's (Lillie's Modification)

Produces a crisp dark blue nuclei. A traditional formulation that results in an excellent quality stain that is more intense than our Hematoxylin, For Automation (catalog# HAQ999). For optimal results, use in combination with Bluing Reagent (catalog# BRT999).

<u>Catalog Number</u>	<u>Volume</u>
HMM125	125 ml
HMM500	500 ml
HMM999	1000 ml
HMM3800	1 Gal.

Hematoxylin, Weigert's Iron Kit

Weigert's Iron Hematoxylin is intended to be used with various special stain kits. Product is supplied as a two component (equal volumes of parts A and B) system that is mixed prior to use and results in black/blue nuclei.

<u>Catalog Number</u>	<u>Volume</u>
HWI-1	250 ml
HWI-2	1000 ml
HWI-3	2000 ml

Methyl Green (Purified) Solution

Single component, Ready-To-Use solution for nuclear staining. Methyl Green (Purified) Solution binds to the DNA resulting in light green nuclei with little or no background staining. This

reagent is suitable for use with chromogens that tolerate dehydration and permanent mounting.

<u>Catalog Number</u>	<u>Volume</u>
MG500	500 ml
MG999	1000 ml

Buffers

Acetate Buffer Solution, pH 8.0

Used in the Microwave Copper Stain.

<u>Catalog Number</u>	<u>Volume</u>
SAB500	500 ml
SAB999	1000 ml

Citrate Buffer (10x) pH 6.0

Citrate Buffer (10X) HIER Solution (pH 6.0) is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
CBB125	125 ml
CBB500	500 ml
CBB999	1000 ml

Citrate Plus (10x) HIER Solution

This is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective. Citrate Plus (10X) can be used in a vegetable steamer, autoclave, or pressure cooker. However, for optimal results we recommend the autoclave or pressure cooker.

<u>Catalog Number</u>	<u>Volume</u>
CPL500	500 ml
CPL999	1000 ml

EDTA - Saline Buffer (10X Concentrate); pH 8.0

EDTA Buffer (10X) HIER Solution (pH 8.0) is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
ETA500	500 ml
ETA999	1000 ml

Phosphate Buffer Solution, pH 6.8

Ready-to-Use solution used in the Giemsa Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
PBM500	500 ml
PBM999	1000 ml

Water, Deionized/Distilled

Water for use in laboratory procedures has been deionized, distilled and filtered at 0.2 micrometer for critical assays.

<u>Catalog Number</u>	<u>Volume</u>
DDH999	1000 ml
DDH3800	1 gal
DDH-20000	20 lt

Phosphate Buffered Saline (10x) pH 7.4

Histo-Line Phosphate Buffered Saline (10x) pH 7.4 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBD500	500 ml
PBD999	1000 ml
PBD010	10 L
PBD-20000	20 L

Phosphate Buffered Saline (25x) pH 7.6

Histo-Line Phosphate Buffered Saline (25x) pH of 7.6 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBS125	125 ml
PBS500	500 ml
PBS999	1000 ml
PBS010	10 L
PBS-20000	20 L

Methanol

For various laboratory procedures.

<u>Catalog Number</u>	<u>Volume</u>
MTH500	500ml
MTH999	900 ml
MTH3800	1 gal

Wash Solution Concentrate (50X)

Wash Solution Concentrate (50x) is designed to provide optimal rinsing of routine or special stains between steps. In addition, this reagent can be used as a dilution buffer for most aqueous stains. This product is compatible with hand staining procedures and most automated systems.

<u>Catalog Number</u>	<u>Volume</u>
WSC999	1000 ml

Phosphate Buffered Saline plus Tween 20 (10x) pH 7.4

Histo-Line Phosphate Buffered Saline + Tween 20 (10x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBE500	500 ml
PBE999	1000 ml
PBE010	10 L
PBE-20000	20 L

Phosphate Buffered Saline plus Tween 20 (20x) pH 7.6

Histo-Line Wash buffer formulations are an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBT500	500 ml
PBT999	1000 ml
PBT010	10 L
PBT-20000	20 L

SSPE Buffer (20x) pH 7.4

Diluted solution contains Sodium Chloride: 0.15 M; Sodium Phosphate: 0.010 M; EDTA: 0.001 M.

<u>Catalog Number</u>	<u>Volume</u>
SPE-20000	20 L

Tris Buffered Saline (10x) pH 7.5

Histo-Line Tris Buffered Saline (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBD500	500 ml
TBD999	1000 ml
TBD010	10 L
TBD-20000	20 L

Tris Buffered Saline (25x) pH 7.4

Histo-Line Tris Buffered Saline (25x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBS500	500 ml
TBS999	1000 ml
TBS010	10 L
TBS-20000	20 L

Tris Buffered Saline plus Tween 20 (10x) pH 7.5

Histo-Line Tris Buffered Saline + Tween 20 (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBE500	500 ml
TBE999	1000 ml
TBE010	10 L
TBE-20000	20 L

Tris Buffered Saline plus Tween 20 (20x Concentrate) pH 7.4

Histo-Line Tris Buffered Saline + Tween 20 (20x Concentrate) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the tissue sample or microtiter plate wells without disrupting the antibody binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application.

<u>Catalog Number</u>	<u>Volume</u>
TBT500	500 ml
TBT999	1000 ml
TBT010	10 L
TBT-20000	20 L

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31	ACTH (Adrenocorticotrophic Hormone); Clone AH26 & 57 (Concentrate)	41	CD10 (Membrane Metalloendopeptidase); Clone 56C6 (Concentrate)
32	ACTH (Adrenocorticotrophic Hormone); Clone AH26 (Concentrate)	41	CD10, CALLA (Neutral Endopeptidase); Clone 56C6 (Concentrate)
32	Actin, Alpha-Smooth Muscle; Clone 1A4 (Concentrate)	41	CD100 (Semaphorin-4D); Clone 133-1C6 (Concentrate)
32	Actin, Muscle Specific (Muscle Cell Marker); Clone HHF35 (Concentrate)	42	CD100 (Semaphorin-4D); Clone A8 (Concentrate)
32	Actin, Muscle Specific (Muscle Cell Marker); Clone MSA/953 (Concentrate)	42	CD106 / VCAM1 (Activated Endothelial Cell Marker); Clone 1.4C3 (Concentrate)
32	Actin, Smooth Muscle (Leiomyosarcoma Marker); Clone 1A4 (Concentrate)	42	CD106 / VCAM1 (Activated Endothelial Cell Marker); Clone VCAM1/843 (Concentrate)
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38	Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone CALD1/820 (Concentrate)	48	CD45 / LCA (Leukocyte Marker); Clone 2B11 (Concentrate)
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40	Carcinoembryonic Antigen (CEA) / CD66; Clone C66/195 (Concentrate)	50	CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123A8 {56C04} (Concentrate)
40	Carcinoembryonic Antigen (CEA) / CD66; Clone C66/261 (Concentrate)	50	CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123C3.D5 & 123A8 (Concentrate)
40	Carcinoembryonic Antigen (CEA) / CD66; Clone CEA31 (Concentrate)	50	CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123C3.D5 (Concentrate)
40	Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1 (Concentrate)	51	CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone NKH1/784 (Concentrate)
40	Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1, CEA31 & C66/261 (Concentrate)	51	CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone NKH1/795 (Concentrate)
41	Carcinoembryonic Antigen (CEA) / CD66; Clone SPM330 (Concentrate)	51	CD56; Clone 123C3 (Concentrate)
41	Carcinoembryonic Antigen (CEA) / CD66; Clone SPM551 (Concentrate)	51	CD57 (HNK-1); Clone NK-1 (Concentrate)
		51	CD57 / B3GAT1 (Natural Killer Cell Marker); Clone HNK-1 & NK-1 (Concentrate)
		51	CD57 / B3GAT1 (Natural Killer Cell Marker); Clone HNK-1 or Leu-7 (Concentrate)
		51	CD57 / B3GAT1 (Natural Killer Cell Marker); Clone NK/804 (Concentrate)

51	CD57 / B3GAT1 (Natural Killer Cell Marker); Clone NK-1 (Concentrate)	62	Cytokeratin 10 (Suprabasal Epithelial Marker); Clone KRT10/844 (Concentrate)
52	CD6; Clone 3F7B5 (Concentrate)	62	Cytokeratin 10; Clone DE-K10 (Concentrate)
52	CD6; Clone C6/372 & 3F7B5 (Concentrate)	62	Cytokeratin 14 (KRT14) (Squamous Cell Marker); Clone LL002 (Concentrate)
52	CD6; Clone C6/372 (Concentrate)	62	Cytokeratin 17 (KRT17) (Basal Epithelial Marker); Clone E3 (Ks17.E3) (Concentrate)
52	CD63 (Late Endosomes Marker); Clone LAMP3/803 (Concentrate)	62	Cytokeratin 17 (KRT17) (Basal Epithelial Marker); Clone KRT17/778 (Concentrate)
52	CD63 (Late Endosomes Marker); Clone MX-49.129.5 (Concentrate)	62	Cytokeratin 18 (KRT18); Clone DA7 (Concentrate)
52	CD63 (Late Endosomes Marker); Clone NK1/C3 (Concentrate)	62	Cytokeratin 18 (KRT18); Clone DC10 (Concentrate)
53	CD68 (Macrophage Marker); Clone C68/684 (Concentrate)	63	Cytokeratin 18 (KRT18); Clone DE-K18 (Concentrate)
53	CD68 (Macrophage Marker); Clone CD68/G2 (Concentrate)	63	Cytokeratin 18 (KRT18); Clone KRT18/834 (Concentrate)
53	CD68 (Macrophage Marker); Clone KP1 & C68/684 (Concentrate)	63	Cytokeratin 18 (KRT18); Clone KRT18/835 (Concentrate)
53	CD68 (Macrophage Marker); Clone KP1 (Concentrate)	63	Cytokeratin 18 (KRT18); Clone KRT18/836 (Concentrate)
53	CD68 (Macrophage Marker); Clone LAMP4/824 (Concentrate)	63	Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone A53-B/A2.26 & BA17 (Concentrate)
53	CD74 (B-Cell Marker); Clone CLIP/813 (Concentrate)	63	Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone A53-B/A2.26 (Ks19.1) (Concentrate)
53	CD74 (B-Cell Marker); Clone LN-2 (Concentrate)	64	Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone BA17 (Concentrate)
54	CD79a (B-Cell Marker); Clone HM47/A9 (Concentrate)	64	Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone KRT19/799 (Concentrate)
54	CD79a (B-Cell Marker); Clone IGA/515 (Concentrate)	64	Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone KRT19/800 (Concentrate)
54	CD79a (B-Cell Marker); Clone IGA/764 (Concentrate)	64	Cytokeratin 19; Clone A53-B/A2.26 (Concentrate)
54	CD79a (B-Cell Marker); Clone JCB117 & HM47/A9 (Concentrate)	64	Cytokeratin 6; Clone EP67 (Concentrate)
55	CD79a (B-Cell Marker); Clone JCB117 (Concentrate)	64	Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone K72.7 (Concentrate)
55	CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/144B (Concentrate)	64	Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone KRT7/760 (Concentrate)
55	CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/468 & C8/144B (Concentrate)	64	Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone OV-TL12/30 & K72.7 (Concentrate)
55	CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/468 (Concentrate)	64	Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone OV-TL12/30 (Concentrate)
116	CD8A (Cytotoxic & Suppressor T-Cell Marker); Rabbit Polyclonal (Concentrate)	64	Cytokeratin 7; Clone OV-TL12/30 (Concentrate)
55	CD99 / MIC2 (Ewing's Sarcoma Marker); Clone 12E7 & MIC2/877 (Concentrate)	65	Cytokeratin 8 (KRT8); Clone 34BH11 (Concentrate)
55	CD99 / MIC2 (Ewing's Sarcoma Marker); Clone 12E7 (Concentrate)	65	Cytokeratin 8 (KRT8); Clone H1 & TS1 (Concentrate)
56	CD99 / MIC2 (Ewing's Sarcoma Marker); Clone HO36-1.1 (Concentrate)	65	Cytokeratin 8 (KRT8); Clone H1 (Concentrate)
56	CD99 / MIC2 (Ewing's Sarcoma Marker); Clone MIC2/877 (Concentrate)	65	Cytokeratin 8 (KRT8); Clone K8/383 (Concentrate)
56	CDw75 (B-Cell Marker); Clone LN-1 (Concentrate)	65	Cytokeratin 8 (KRT8); Clone KRT8/818 (Concentrate)
56	CDX2 (GI Epithelial Marker); Clone CDX2/1690 (Concentrate)	65	Cytokeratin 8 (KRT8); Clone TS1 (Concentrate)
56	CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1341 (Concentrate)	66	Cytokeratin 8/18 (Epithelial Marker); Clone C-43 & DC10 (Concentrate)
56	CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1342 (Concentrate)	66	Cytokeratin 8/18 (Epithelial Marker); Clone K8.8 & DC10 (Concentrate)
57	CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1643 (Concentrate)	66	Cytokeratin 8; Clone KRT8/899 (Concentrate)
57	CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1775R (Concentrate)	66	Cytokeratin, Acidic (Type I or LMW) (Epithelial Marker); Clone AE-1 (Concentrate)
57	CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1785 (Concentrate)	66	Cytokeratin, Acidic (Type I or LMW) (Epithelial Marker); Clone KRTL (Concentrate)
57	CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone SPM176 (Concentrate)	66	Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone 34BE12 (Concentrate)
57	Chromogranin A / CHGA (Neuroendocrine Marker); Clone CGA/413 (Concentrate)	67	Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone AE-3 (Concentrate)
57	Chromogranin A / CHGA (Neuroendocrine Marker); Clone CGA/414 (Concentrate)	67	Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone KRTH (Concentrate)
58	Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/1773R (Concentrate)	67	Cytokeratin, Multi (Acidic); Clone AE1 (Concentrate)
58	Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/1815R (Concentrate)	67	Cytokeratin, Multi (Basic); Clone AE-3 (Concentrate)
58	Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/765 (Concentrate)	67	Cytokeratin, Multi (Epithelial Marker); Clone C11 (Concentrate)
58	Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/777 (Concentrate)	67	Cytokeratin, Pan (Epithelial Marker); Clone AE-1 & AE-3 (Concentrate)
58	Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/798 (Concentrate)	67	Cytokeratin, Pan (Epithelial Marker); Clone KRTL & KRTH (Concentrate)
58	Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10 & PHE5 (Concentrate)	67	Cytokeratin, pan (Epithelial Marker); Clone PAN-CK (Concentrate)
58	Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10 (Concentrate)	68	Cytokeratin, Pan; Clones AE1 & AE3 (Concentrate)
59	Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10, PHE5 & CGA/414 (Concentrate)	68	Desmin (Muscle Cell Marker); Clone D33 (Concentrate)
59	Chromogranin A / CHGA (Neuroendocrine Marker); Clone PHE5 (Concentrate)	68	Desmin; Clone D33 (Concentrate)
59	Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM339 (Concentrate)	68	DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DG1/447 & DOG-1.1 (Concentrate)
59	Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM553 (Concentrate)	68	DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DG1/447 (Concentrate)
59	Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM585 (Concentrate)	68	DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DOG-1.1 (Concentrate)
59	Chromogranin A / CHGA (Neuroendocrine Marker); Clones CGA/413 & CHGA/777 & CHGA/798 (Concentrate)	68	Double Stranded DNA (dsDNA) (Nuclear Marker); Clone 121-3 (Concentrate)
60	Chromogranin A / CHGA (Neuroendocrine Marker); Polyclonal (Concentrate)	69	EGFR (Epidermal Growth Factor Receptor); Clone GFR450 (Concentrate)
60	Chromogranin A; Clones LK2H10 & PHE5 (Concentrate)	69	Ep-CAM / CD326 (Epithelial Marker); Clone EGP40/826 (Concentrate)
60	Clathrin, Light Chain; Clone CLC/1421 (Concentrate)	69	Ep-CAM / CD326 (Epithelial Marker); Clone EGP40/837 (Concentrate)
60	c-Myc Oncoprotein; Clone 9E10.3 (Concentrate)	69	Ep-CAM / CD326 (Epithelial Marker); Clone HEA125 (Concentrate)
60	c-Myc Oncoprotein; Clone MYC909 (Concentrate)	69	Ep-CAM / CD326 (Epithelial Marker); Clone MOC-31 (Concentrate)
60	Complement 4d (C4d) (Acute Humoral Rejection Marker); Clone C4D204 (Concentrate)	69	Ep-CAM / CD326 (Epithelial Marker); Clone VU-1D9 (Concentrate)
60	CPS1 / Carbamoyl-Phosphate Synthetase (Hepatic Mitochondrial Marker); Clone CPS1/1022 (Concentrate)	70	Epithelial Membrane Antigen; Clone E29 (Concentrate)
60	Creatine Kinase-BB (CK-BB); Clone 2ba6 (Concentrate)	70	ER beta-1 (Estrogen Receptor beta-1); Clone ERb455 (Concentrate)
60	Cyclin B1 (G2- & M-phase Cyclin); Clone CCNB1/1098 (Concentrate)	70	Erythropoietin (EPO); Clone EPO/1367 (Concentrate)
61	Cyclin D1 (G1-Cyclin & Mantle Cell Marker); Clone CCND1/809 (Concentrate)	70	Erythropoietin (EPO); Clone EPO/1368 (Concentrate)
61	Cyclin D1 (G1-Cyclin & Mantle Cell Marker); Clone DCS-6 (Concentrate)	70	Estrogen Receptor (Marker of Estrogen Dependence); Clone ER505 (Concentrate)
61	Cytochrome c (Mitochondrial Marker); Clone 7H8.2C12 (Concentrate)	70	Fascin-1 (Reed-Sternberg Cell Marker); Clone FSCN1/417 (Concentrate)
61	Cytochrome c (Mitochondrial Marker); Clone CTC05 (Concentrate)	70	Fascin-1; Clone FSCN1/417 (Concentrate)
61	Cytokeratin 10 (Suprabasal Epithelial Marker); Clone AE20 (Concentrate)	71	FSH-beta (Follicle Stimulating Hormone-beta); Clone FSHb/1062 (Concentrate)
61	Cytokeratin 10 (Suprabasal Epithelial Marker); Clone DE-K10 (Concentrate)	71	GFAP (Astrocyte & Neural Stem Cell Marker); Clone ASTRO/789 (Concentrate)
		71	GFAP (Astrocyte & Neural Stem Cell Marker); Clone GA-5 & ASTRO/789 (Concentrate)

71	GFAP (Astrocyte & Neural Stem Cell Marker); Clone GA-5 (Concentrate)	80	Kappa Light Chain; Clone KLC264 (Concentrate)
71	GFAP; Clone ASTRO/789 (Concentrate)	80	Kappa; Clone L1C1 (Concentrate)
71	Glycophorin A / CD235a (Erythrocyte Marker); Clone GYPA/280 (Concentrate)	80	KBA.62 (Melanoma Associated Antigen); Clone KBA.62 (Concentrate)
71	Glypican-3 (GPC3) (Marker of Hepatocellular Carcinoma); Clone 1G12 & GPC3/863 (Concentrate)	81	Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16; Clone CDH16/1071 (Concentrate)
72	Glypican-3 (GPC3) (Marker of Hepatocellular Carcinoma); Clone 1G12 (Concentrate)	81	Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16; Clone CDH16/1532R (Concentrate)
72	Glypican-3 (GPC3) (Marker of Hepatocellular Carcinoma); Clone GPC3/863 (Concentrate)	81	Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16; Clone rCDH16/1071 (Concentrate)
72	GnRH-Receptor / LH-RH Receptor; Clone A9E4 (Concentrate)	81	Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16; Clone SPM594 (Concentrate)
72	GnRH-Receptor / LH-RH Receptor; Clone F1G4 (Concentrate)	81	Lambda Light Chain (B-Cell Marker); Clone HP6054 (Concentrate)
72	GnRH-Receptor / LH-RH Receptor; Clone HH7/768 (Concentrate)	81	Lambda Light Chain (B-Cell Marker); Clone ICO-106 (Concentrate)
72	gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone HMB45 & PMEL/783 (Concentrate)	82	Lambda Light Chain (B-Cell Marker); Clone LAM03 (Concentrate)
72	gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone HMB45 (Concentrate)	82	Lambda Light Chain (B-Cell Marker); Clone Lamb14 (Concentrate)
73	gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone PMEL/783 (Concentrate)	82	Lambda Light Chain (B-Cell Marker); Clone LcN-2 & ICO-106 (Concentrate)
73	hCG Holo (Pregnancy & Choriocarcinoma Marker); Clone HCGab/52 (Concentrate)	82	Lambda Light Chain (B-Cell Marker); Clone LcN-2 (Concentrate)
73	HCG-alpha (Pregnancy & Choriocarcinoma Marker); Clone SPM552 (Concentrate)	82	LH, alpha (Luteinizing Hormone, alpha); Clone LHA/756 (Concentrate)
73	hCG-alpha; Clone HCGa/53 (Concentrate)	82	Macrophage Marker (Calgranulin A/B); Clone CAG/426 (Concentrate)
73	HCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/211 (Concentrate)	83	Macrophage Marker (Macrophage L1 Protein) (Calprotectin); Clone MAC387 (Concentrate)
73	hCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/459 (Concentrate)	83	Macrophage Marker (Myeloid-Related Proteins 8/14) (MRP-8/MRP-14); Clone MRP/840 (Concentrate)
74	hCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/54 & HCGb/459 (Concentrate)	83	Macrophage Marker (S100A8/A9); Clone S100/722 (Concentrate)
74	hCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/54 (Concentrate)	83	MAGE-1 (Target for Cancer Immunotherapy); Clone MA454 (Concentrate)
74	HCG-beta (Pregnancy & Choriocarcinoma Marker); Clone SPM105 (Concentrate)	83	MAGE-1 (Target for Cancer Immunotherapy); Clone MZ2E/838 (Concentrate)
74	HCG-beta (Pregnancy & Choriocarcinoma Marker); Clone SPM529 (Concentrate)	84	Major Vault Protein (MVP); Clone 1014 (Concentrate)
116	Helicobacter Pylori; Rabbit Polyclonal (Concentrate)	84	Major Vault Protein (MVP); Clone 1032 (Concentrate)
74	Hepatocyte Specific Antigen (Hep Par 1) (Hepatocellular Marker); Clone OCH1E5 (Hep Par 1) (Concentrate)	84	MALT1 (MALT-Lymphoma Marker); Clone MT1/410 (Concentrate)
75	Hepatocyte Specific Antigen (Hepatocellular Marker); Clone HSA98 (Concentrate)	84	MALT1 (MALT-Lymphoma Marker); Clone SPM578 (Concentrate)
75	HER-2 / c-erbB-2 / neu / CD340; Clone HRB2/451 (Concentrate)	84	MART-1 / Melan-A / MLANA (Melanoma Marker); Clone A103 (Concentrate)
75	HPV-16 (Human Papilloma Virus 16); Clone CAMVIR-1 (Concentrate)	84	MART-1 / Melan-A / MLANA (Melanoma Marker); Clone A103, M2-7C10 & M2-9E3 (Concentrate)
75	HSP27 (Heat Shock Protein 27); Clone 24K/774 (Concentrate)	85	MART-1 / Melan-A / MLANA (Melanoma Marker); Clone DT101 & BC199 (Concentrate)
75	HSP27 (Heat Shock Protein 27); Clone G3.1 (Concentrate)	85	MART-1 / Melan-A / MLANA (Melanoma Marker); Clone M2-7C10 & M2-9E3 (Concentrate)
75	HSP60 (Heat Shock Protein 60); Clone HLD4/780 (Concentrate)	85	MART-1 / Melan-A / MLANA (Melanoma Marker); Clone M2-7C10 (Concentrate)
76	HSP60 (Heat Shock Protein 60); Clone LK1 (Concentrate)	85	MART-1 / Melan-A / MLANA (Melanoma Marker); Clone M2-9E3 (Concentrate)
76	IDH1 R132H; Clone H09 (Concentrate)	86	MART-1 / Melan-A / MLANA (Melanoma Marker); Clone MLANA/788 (Concentrate)
76	IDH1-pan (wt & mutated); Clone W09 (Concentrate)	86	MCAM (Melanoma Cell Adhesion Molecule) / MUC18 / CD146; Clone MCAM/1101 (Concentrate)
76	IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone GA01 (Concentrate)	86	MCAM (Melanoma Cell Adhesion Molecule) / MUC18 / CD146; Clone MUC18/1130 (Concentrate)
76	IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone HISA3 & GA01 (Concentrate)	86	MCAM (Melanoma Cell Adhesion) / MUC18 / CD146; Clone C146/634 (Concentrate)
76	IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone HISA3 (Concentrate)	86	Melanoma Associated Antigen; Clone KBA.62 (Concentrate)
77	IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone B33/20 (Concentrate)	86	Melanoma Marker (MART-1 & gp100); Clone DT101, BC199, & HMB45 (Concentrate)
77	IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG217 & IG266 (Concentrate)	87	Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone A103, T311, & HMB45 (Concentrate)
77	IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG217 (Concentrate)	87	Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone DT101, BC199, T311, & HMB45 (Concentrate)
77	IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG266 (Concentrate)	87	Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone M2-7C10, M2-9E3, T311, & HMB45 (Concentrate)
78	IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone DA4-4 (SA-DA4 or HB57) (Concentrate)	87	Melanoma; Pan (Concentrate)
78	IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone ICO-30 (Concentrate)	87	Microphthalmia Transcription Factor (MITF); Clone D5 & MITF/915 (Concentrate)
78	IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 & ICO-30 (Concentrate)	87	Microphthalmia Transcription Factor (MITF); Clone D5 (Concentrate)
78	IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 (Concentrate)	87	Microphthalmia Transcription Factor (MITF); Clone MITF/915 (Concentrate)
78	IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM373 (Concentrate)	87	Mitochondria (Marker for Human Cells); Clone AE-1 (Concentrate)
78	Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone 2D11-H5 (INS05) (Concentrate)	88	Mitochondria (Marker for Human Cells); Clone MTC02 (Concentrate)
78	Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone E2-E3 & 2D11-H5 (INS04 & INS05) (Concentrate)	88	Mitochondria (Marker for Human Cells, Granular RCC's & Salivary Tumors); Clone 113-1 (Concentrate)
78	Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone E2-E3 (INS04) (Concentrate)	88	Mitochondrial Marker; Clone MTC719 (Concentrate)
79	Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone IRDN/794 (Concentrate)	88	Mitochondrial Marker; Clone MTC754 (Concentrate)
79	Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone IRDN/805 (Concentrate)	88	Moesin; Clone MSN491 (Concentrate)
79	Involucrin (Squamous Cell Terminal Differentiation Marker); Clone IVRN/827 (Concentrate)	88	MUC1 / EMA / CD227 (Epithelial Marker); Clone 139H2 (Concentrate)
79	Involucrin (Squamous Cell Terminal Differentiation Marker); Clone SY5 (Concentrate)	89	MUC1 / EMA / CD227 (Epithelial Marker); Clone E29 (Concentrate)
79	Kappa Light Chain (B-Cell marker); Clone HP6053 & L1C1 (Concentrate)	89	MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 & E29 (Concentrate)
79	Kappa Light Chain (B-Cell marker); Clone HP6053 (Concentrate)	89	MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 (Concentrate)
80	Kappa Light Chain (B-Cell marker); Clone Kap-56 (Concentrate)	89	MUC1 / EMA / CD227 (Epithelial Marker); Clone HMPV (Concentrate)
80	Kappa Light Chain (B-Cell marker); Clone KLC264 (Concentrate)	90	MUC1 / EMA / CD227 (Epithelial Marker); Clone PEM/845 (Concentrate)
80	Kappa Light Chain (B-Cell marker); Clone KLC709 (Concentrate)	90	MUC2 (Mucin 2); Clone CCP58 (Concentrate)
80	Kappa Light Chain (B-Cell marker); Clone L1C1 (Concentrate)	90	MUC2 (Mucin 2); Clone MLP/842 (Concentrate)
80	Kappa Light Chain (B-Cell marker); Clone TB28-2 (Concentrate)	90	MUC5AC (Gastric Mucin); Clone 45M1 (Concentrate)
		90	MUC5AC (Mucin 5AC / Gastric Mucin); Clone 45M1 (Concentrate)
		90	MUC5AC (Mucin 5AC / Gastric Mucin); Clone CLH2 (Concentrate)
		91	MUC5AC (Mucin 5AC / Gastric Mucin); Clone MUC5AC/917 (Concentrate)
		91	MUC6 (Mucin 6 / Gastric Mucin); Clone CLH5 (Concentrate)
		91	MUC6 (Mucin 6 / Gastric Mucin); Clone MUC6/916 (Concentrate)
		91	Myeloid Cell Marker (Macrophage / Granulocyte Marker); Clone BM-1 (Concentrate)
		91	Myeloid-Associated Differentiation Marker (MYADM); Clone BM-2 (Concentrate)
		91	Myeloid-Associated Differentiation Marker (MYADM); Clone MYADM/971 (Concentrate)

92	Myeloid-Associated Differentiation Marker (MYADM); Clone MYADM/972 (Concentrate)	103	Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Concentrate)
92	MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A & MYD712 (Concentrate)	103	Plasma Cell Marker; Clone LIV3G11 (7B18) (Concentrate)
92	MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A (Concentrate)	103	PNL2 (Melanoma Associated Antigen); Clone PNL2 (Concentrate)
92	MyoD1 (Rhabdomyosarcoma Marker); Clone MYD712 (Concentrate)	103	Podocalyxin (PODXL) (Hematopoietic Stem Cell Marker); Clone 3D3 (Concentrate)
92	Myogenin (Skeletal Muscle Marker); Clone F5D (Concentrate)	103	Podoplanin (Lymphatic Endothelium & Alveolar Epithelial Marker); Clone PDPN/601 (Concentrate)
92	Myogenin (Skeletal Muscle Marker); Clone MGN185 & F5D (Concentrate)	104	Podoplanin (PDPN) (Lymphatic Endothelial & Mesothelial Marker); Clone PDPN/1433 (Concentrate)
93	Myogenin (Skeletal Muscle Marker); Clone MGN185 (Concentrate)	104	Progesterone Receptor (Marker of Progestin Dependence); Clone PR484 (Concentrate)
93	Napsin A (Lung Adenocarcinoma Marker); Clones NAPSA/1238 & NAPSA/1239 (Concentrate)	104	Prolactin Receptor (PRL-R); Clone B6.2 & PRLR742 (Concentrate)
116	Napsin A (Lung Adenocarcinoma Marker); Rabbit Polyclonal (Concentrate)	104	Prolactin Receptor (PRL-R); Clone B6.2 (Concentrate)
93	Napsin A; Clones NAPSA/1238 & NAPSA/1239 (Concentrate)	104	Prolactin Receptor (PRL-R); Clone PRLR742 (Concentrate)
93	N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone 13A9 (Concentrate)	104	Prostate Specific Antigen (PSA); Clone A67-B/E3 (Concentrate)
93	N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone 8C11 (Concentrate)	105	Prostate Specific Antigen (PSA); Clone KLK3/801 (Concentrate)
93	N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone CDH2/1573 (Concentrate)	105	pS2 / pNR-2 / Trefoil Factor 1 (Estrogen-Regulated Protein); Clone GE2 (R47/94) (Concentrate)
93	Neurofilament (H & L) (Neuronal Marker); Clone NF421 & NFL/736 (Concentrate)	105	pS2 / pNR-2 / Trefoil Factor 1 (Estrogen-Regulated Protein); Clone TFF1/1091 (Concentrate)
94	Neurofilament (H & L) (Neuronal Marker); Clone RT97 & NR-4 (Concentrate)	105	Renal Cell Carcinoma (RCC); Clone 66.4.C2 (Concentrate)
94	Neurofilament (NF-H) (Neuronal Marker); Clone NF421 (Concentrate)	105	Renal Cell Carcinoma / gp200 (Carbonic Anhydrase IX); Clone 66.4.C2 (PN-15) (Concentrate)
94	Neurofilament (NF-H) (Neuronal Marker); Clone RT97 (Concentrate)	105	Renal Cell Carcinoma / gp200 (Carbonic Anhydrase IX); Clone CA9/781 (Concentrate)
94	Neurofilament (NF-L) (Neuronal Marker); Clone NFL/736 (Concentrate)	105	Retinol Binding Protein-1 (RBP1); Clone G4E4 (Concentrate)
95	Neurofilament (NF-L) (Neuronal Marker); Clone NR-4 (Concentrate)	106	Retinol Binding Protein-1 (RBP1); Clone RBP/872 (Concentrate)
95	NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NGRF5 & NTR/912 (Concentrate)	106	S100 (Astrocyte Marker); Clone 4C4.9 (Concentrate)
95	NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NGRF5 (Concentrate)	106	S-100; Clone 4C4.9 (Concentrate)
95	NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NTR/912 (Concentrate)	106	S100A7 / HID5 / Psoriasin (Proliferative Epithelial Cell Marker); Clone S100A7/542 (Concentrate)
96	NKX2.2 (Neuroendocrine & Ewing Sarcoma Marker); Clone NX2/294 (Concentrate)	106	Secretory Component / ECM1; Clone ECM1/792 (Concentrate)
96	NSE gamma (Neuron Specific Enolase, gamma) (Neuroendocrine Marker); Clone ENO2/1462 (Concentrate)	106	Secretory Component / ECM1; Clone SC05 (Concentrate)
96	Nuclear Membrane Marker; Clone AE-5 (Concentrate)	106	Sex Hormone Binding Globulin (SHBG); Clone SHBG/245 (Concentrate)
96	Nuclear Membrane Marker; Clone NM97 (Concentrate)	107	Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker); Clone ID8 (Concentrate)
96	Nuclear Mitotic Apparatus Protein (NuMA); Clone A73-B/D12 (Concentrate)	107	Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker); Clone MYH11/923 (Concentrate)
96	Nucleoli Marker; Clone NM95 (Concentrate)	107	Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker); Clone SMMS-1 (Concentrate)
97	Nucleolin (Marker of Nucleoli); Clone NCL/902 (Concentrate)	107	SOX10 (Melanoma Marker); Clone SOX10/991 (Concentrate)
97	Ornithine Decarboxylase-1 (ODC-1); Clone ODC1/485 (Concentrate)	107	SOX10; Clone SOX10/991 (Concentrate)
97	p21WAF1 (Tumor Suppressor Protein); Clone CIP1/823 & DCS-60.2 (Concentrate)	107	SUMO-1; Clone SM1/495 (Concentrate)
97	p21WAF1 (Tumor Suppressor Protein); Clone CIP1/823 (Concentrate)	107	SUMO-2/3; Clone SM23/496 (Concentrate)
97	p21WAF1 (Tumor Suppressor Protein); Clone DCS-60.2 (Concentrate)	108	TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CA72/733 (Concentrate)
97	p21WAF1 (Tumor Suppressor Protein); Clone HJ21 (Concentrate)	108	TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CC49 (Concentrate)
98	p21WAF1 (Tumor Suppressor Protein); Clone SPM306 (Concentrate)	108	TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 (Concentrate)
98	p21WAF1 (Tumor Suppressor Protein); Clone WA-1 (HJ21) (Concentrate)	108	TAG-72 (Tumor-Associated Glycoprotein); Clone CA72/733 (Concentrate)
98	p21WAF1; Clone WA-1 (Concentrate)	109	TAG-72 (Tumor-Associated Glycoprotein); Clone CC49 (Concentrate)
98	p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone DCS-72.F6 & KIP1/769 (Concentrate)	109	Tenascin C (Stromal Marker for Epithelial Malignancy); Clone T2H5 (Concentrate)
98	p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone DCS-72.F6 (Concentrate)	109	TGF-alpha (Transforming Growth Factor alpha); Clone 1E8-G6 (Concentrate)
98	p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone KIP1/769 (Concentrate)	109	TGF-alpha (Transforming Growth Factor alpha); Clone P/T1 (Concentrate)
98	p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone SPM348 (Concentrate)	109	TGF-alpha (Transforming Growth Factor alpha); Clone TG86 & P/T1 (Concentrate)
99	p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone SX53G8 (Concentrate)	110	TGF-alpha (Transforming Growth Factor alpha); Clone TG86 (Concentrate)
116	p40 (deltaNp63) (Squamous, Basal, or Myoepithelial Cell Marker); Rabbit Polyclonal (Concentrate)	110	Thymidylate Synthase (5-FU Resistance Marker); Clone TMS715 (Concentrate)
99	p53 Tumor Suppressor Protein; Clone BP53-12 & DO-7 (Concentrate)	110	Thymidylate Synthase (5-FU Resistance Marker); Clone TS106 & TMS715 (Concentrate)
99	p53 Tumor Suppressor Protein; Clone BP53-12 (Concentrate)	110	Thymidylate Synthase (5-FU Resistance Marker); Clone TS106 (Concentrate)
99	p53 Tumor Suppressor Protein; Clone DO-7 (Concentrate)	110	Thyroglobulin (Thyroidal Cell Marker); Clone 2H11 & 6E1 (Concentrate)
99	p53 Tumor Suppressor Protein; Clone TRP/816 (Concentrate)	110	Thyroglobulin (Thyroidal Cell Marker); Clone 2H11 (Concentrate)
99	p53 Tumor Suppressor Protein; Clone TRP/817 (Concentrate)	111	Thyroglobulin (Thyroidal Cell Marker); Clone 6E1 (Concentrate)
100	p53; Clone BP53-12 (Concentrate)	111	Thyroglobulin (Thyroidal Cell Marker); Clone TGB04 & TGB05 (Concentrate)
100	p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone 57P06 (Concentrate)	111	TIGIT; Clone TG1 (Concentrate)
100	p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KIP2/880 (Concentrate)	116	TIMP-3 (Tissue Inhibitor of Metalloproteinase-3); Rabbit Polyclonal (Concentrate)
100	p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KP10 & KIP2/880 (Concentrate)	111	TNF-alpha (Tumor Necrosis Factor alpha); Clone 4C6-H8 (Concentrate)
100	p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KP10 (Concentrate)	111	TNF-alpha (Tumor Necrosis Factor alpha); Clone P/T2 (Concentrate)
100	p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone SPM308 (Concentrate)	111	TNF-alpha (Tumor Necrosis Factor alpha); Clone TNF706 & P/T2 (Concentrate)
100	Parathyroid Hormone (PTH); Clone 3H9 (Concentrate)	111	TNF-alpha (Tumor Necrosis Factor alpha); Clone TNF706 (Concentrate)
101	Parathyroid Hormone (PTH); Clone PTH1/911 (Concentrate)	112	Topoisomerase (DNA) I, Mitochondrial (TOP1MT); Clone TOP1MT/488 (Concentrate)
101	P-Cadherin (CDH3); Clone 12H6 (Concentrate)	112	TRAcP (Tartrate-Resistant Acid Phosphatase); Clone ACP5/1070 (Concentrate)
101	P-Cadherin (CDH3); Clone 6A9 (Concentrate)	112	Transgelin (SM22-alpha); Clone TAGLN/247 (Concentrate)
101	PCNA (Proliferating Cell Nuclear Antigen) (G1- & S-phase Marker); Clone PC10 (Concentrate)	112	TRIM29 (Lung Squamous Cell Carcinoma Marker); Clone TRIM29/1041 (Concentrate)
101	PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone NAT105 (Concentrate)	112	TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone 8G7G3/1 & NX2.1/690 (Concentrate)
101	PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone PDCD1/922 (Concentrate)	112	TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone 8G7G3/1 (Concentrate)
102	PD-L1 / PDCD1LG1 / CD274 / B7-H1; Clone PDL1/2746 (Concentrate)	113	TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone NX2.1/690 (Concentrate)
102	PGP9.5 / Uchl1 (pan-Neuronal Marker); Clone 31A3 (Concentrate)	113	TTF-1; Clone 8G7G3/1 (Concentrate)
102	PGP9.5 / Uchl1 (pan-Neuronal Marker); Clone PARK5/775 (Concentrate)	113	Tubulin-alpha (Microtubule Marker); Clone TU-02 (Concentrate)
102	Phosphotyrosine (P-Tyr); Clone PTR/793 (Concentrate)	113	Tubulin-alpha (Microtubule Marker); Clone TU-16 (Concentrate)
102	Phosphotyrosine (P-Tyr); Clone PY20 (Concentrate)		
102	Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone ALP/870 (Concentrate)		
103	Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone GM022 (Concentrate)		
103	Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone PL8-F6 (Concentrate)		

113	Tumor Endothelial Marker 8 (TEM8) / Anthrax Toxin Receptor 1; Clone TEM8/589 (Concentrate)
113	Tyrosinase (Melanoma Marker); Clone OCA1/812 (Concentrate)
113	Tyrosinase (Melanoma Marker); Clone T311 & OCA1/812 (Concentrate)
114	Tyrosinase (Melanoma Marker); Clone T311 (Concentrate)
114	Vimentin (Mesenchymal Cell Marker); Clone LN6 (Concentrate)
114	Vimentin (Mesenchymal Cell Marker); Clone VM452 (Concentrate)
114	von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone 3E2D10 & VWF635 (Concentrate)
114	von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone 3E2D10 (Concentrate)
115	ZAP-70 [Zeta-chain (TCR) Associated Protein Kinase 70kDa]; Clone 2F3.2 (Concentrate)

PRIMARY ANTIBODIES (IVD)

131	Actin, Alpha-Smooth Muscle; Clone 1A4 (Concentrate)
117	Actin, Alpha-Smooth Muscle; Clone 1A4 (Ready-To-Use)
117	Actin, Muscle Specific; Clone HHF35 (Ready-To-Use)
142	Alpha1-Antichymotrypsin
142	Alpha1-Antitrypsin
143	Alpha1-Fetoprotein (AFP)
132	Bcl-2; Clone 100/D5 (Concentrate)
117	Bcl-2; Clone 100/D5 (Ready-To-Use)
132	Bcl-2; Clone 124 (Concentrate)
117	Bcl-2; Clone 124 (Ready-To-Use)
117	Bcl-6 (Follicular Lymphoma Marker); Clone PG-B6p (Ready-To-Use)
132	Bcl-6; Clone PG-B6p Concentrate
117	CA15-3 (Ready-To-Use)
132	CA19-9; Clone 121SLE (Concentrate)
118	CA19-9; Clone 121SLE (Ready-To-Use)
143	Calcitonin
132	Carcinoembryonic Antigen, Pan (CEA); Clone COL-1 (Concentrate)
118	Carcinoembryonic Antigen, Pan (CEA); Clone COL-1 (Ready-To-Use)
143	Cathepsin D; Clone C5
132	CD10, CALLA (Neutral Endopeptidase); Clone 56C6 (Concentrate)
118	CD10, CALLA (Neutral Endopeptidase); Clone 56C6 (Ready-To-Use)
132	CD15 / FUT4; Clone Leu-M1 (Concentrate)
118	CD15 / FUT4; Clone Leu-M1 (Ready-To-Use)
132	CD20, B-Cell; Clone L26 (Concentrate)
118	CD20, B-Cell; Clone L26 (Ready-To-Use)
118	CD23, B-Cell; Clone MHM6
143	CD3, T-Cell; Polyclonal
133	CD30, Ki-1 Antigen; Clone Ber-H2 (Concentrate)
119	CD30, Ki-1 Antigen; Clone Ber-H2 (Ready-To-Use)
133	CD31, Endothelial Cell; Clone JC/70A (Concentrate)
119	CD31, Endothelial Cell; Clone JC/70A (Ready-To-Use)
133	CD31; Clone C31.3 (Concentrate)
119	CD31; Clone C31.3 (Ready-To-Use)
133	CD31; Clone C31.7 (Concentrate)
119	CD31; Clone C31.7 (Ready-To-Use)
133	CD34, Endothelial Cell; Clone QBEnd/10 (Concentrate)
119	CD34, Endothelial Cell; Clone QBEnd/10 (Ready-To-Use)
120	CD43 (T-Cell); Clone DF-T1 (Ready-To-Use)
133	CD43, T-Cell; Clone DF-T1 (Concentrate)
134	CD45, Leucocyte Common Antigen (LCA); Clones PD7/26 & 2B11 (Concentrate)
120	CD45, Leucocyte Common Antigen (LCA); Clones PD7/26 & 2B11 (Ready-To-Use)
134	CD45; Clone 2B11 (Concentrate)
120	CD45; Clone 2B11 (Ready-To-Use)
134	CD45RA (LCA); Clone 158-4D3 (Concentrate)
120	CD45RA (LCA); Clone 158-4D3 (Ready-To-Use)
134	CD45RB; Clone PD7/26 (Concentrate)
120	CD45RB; Clone PD7/26 (Ready-To-Use)
120	CD45RO, T-Cell; Clone UCHL1 (Ready-To-Use)
134	CD45RO, T-Cell; Clone UCHL1 Concentrate
120	CD5 (Mantel Cell Lymphoma Marker); 4C7 (Ready-To-Use)
134	CD56; Clone 123C3 (Concentrate)
121	CD56; Clone 123C3 (Ready-To-Use)
134	CD57 (HNK-1); Clone NK-1 (Concentrate)
121	CD57 (HNK-1); Clone NK-1 (Ready-To-Use)
121	CD74; Clone LN2 (Ready-To-Use)
121	CD75 (B-Cell Marker); Clone LN1 (Ready-To-Use)
142	CDX-2 & CEA Multiplex Cocktail; Clones EP25 & COL-1 (Ready-To-Use)
142	CDX2 & Cytokeratin 7 Multiplex Cocktail; Clones EP25 & OV-TL12/30 (Ready-To-Use)
121	CDX2; Clone EP25 (Ready-To-Use)
121	c-erbB-2 Oncoprotein
121	c-erbB-2 Oncoprotein; Clone SP3
121	Chromogranin A; Clone A3
135	Chromogranin A; Clones LK2H10 & PHE5 (Concentrate)
122	Chromogranin A; Clones LK2H10 & PHE5 (Ready-To-Use)
135	Cyclin D1; Clone DCS-6 (Concentrate)
122	Cyclin D1; Clone DCS-6 (Ready-To-Use)

114	von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone IIIE2.34 (Concentrate)
115	von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone VWF635 (Concentrate)
115	Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker); Clone 6F-H2 (Concentrate)
115	Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker); Clone WMT/857 (Concentrate)
115	ZAP-70 (Chronic Lymphocytic Leukemia Marker); Clone ZAP70/528 (Concentrate)

122	Cytokeratin (Pan); Clone Cocktail (Ready-To-Use)
135	Cytokeratin 10; Clone DE-K10 (Concentrate)
122	Cytokeratin 10; Clone DE-K10 (Ready-To-Use)
135	Cytokeratin 19 (40 kD); Clone BA 17
135	Cytokeratin 19; Clone A53-B/A2.26 (Concentrate)
123	Cytokeratin 19; Clone A53-B/A2.26 (Ready-To-Use)
123	Cytokeratin 20; Clone EP23 (Ready-To-Use)
123	Cytokeratin 5,6 Cocktail; Clones EP42 & EP67 (Ready-To-Use)
135	Cytokeratin 6; Clone EP67 (Concentrate)
123	Cytokeratin 6; Clone EP67 (Ready-To-Use)
135	Cytokeratin 7; Clone OV-TL12/30 (Concentrate)
123	Cytokeratin 7; Clone OV-TL12/30 (Ready-To-Use)
136	Cytokeratin 8; Clone K8/383 (Concentrate)
124	Cytokeratin 8; Clone K8/383 (Ready-To-Use)
136	Cytokeratin, High Molecular Weight; Clone 34B12
136	Cytokeratin, Multi (Acidic); Clone AE1 (Concentrate)
124	Cytokeratin, Multi (Acidic); Clone AE1 (Ready-To-Use)
136	Cytokeratin, Multi (Basic); Clone AE-3 (Concentrate)
124	Cytokeratin, Multi (Basic); Clone AE-3 (Ready-To-Use)
136	Cytokeratin, Pan; Clones AE1 & AE3 (Concentrate)
124	Cytokeratin, Pan; Clones AE1 & AE3 (Ready-To-Use)
124	Desmin, Clone D33 (Ready-To-Use)
136	Desmin; Clone D33 (Concentrate)
136	Epithelial Membrane Antigen; Clone E29 (Concentrate)
125	Epithelial Membrane Antigen; Clone E29 (Ready-To-Use)
137	Estrogen Receptor; Clone 11D5 (Concentrate)
125	Estrogen Receptor; Clone 11D5 (Ready-To-Use)
137	Estrogen Receptor; Clone ERa078 (Concentrate)
125	Estrogen Receptor; Clone ERa078 (Ready-To-Use)
142	Factor VIII Related Antigen
137	GFAP; Clone ASTRO/789 (Concentrate)
125	GFAP; Clone ASTRO/789 (Ready-To-Use)
125	Glial Fibrillary Acidic Protein (GFAP); Clone GA-5 (Ready-To-Use)
126	Hairy Cell Leukemia; Clone DBA.44
142	HbcAg - Hepatitis B Virus Core; Polyclonal
143	IgA
143	IgG
143	IgM
137	Insulin; Clone 2D11-H5 (Concentrate)
126	Insulin; Clone 2D11-H5 (Ready-To-Use)
143	Kappa Light Chain
137	Kappa Light Chain; Clone KLC264 (Concentrate)
126	Kappa, Light Chain; Clone KLC264 (Ready-To-Use)
137	Kappa; Clone L1C1 (Concentrate)
126	Kappa; Clone L1C1 (Ready-To-Use)
143	Ki-67 Antigen; Polyclonal (Ready-To-Use)
137	Lambda Light Chain; Clone LcN-2 (Concentrate)
126	Lambda Light Chain; Clone LcN-2 (Ready-To-Use)
143	Lambda, Light Chains; Polyclonal (Ready-To-Use)
126	Laminin; Clone 4C7
143	Lysozyme (Muramidase); Polyclonal (Ready-To-Use)
137	MART-1; Clone M2-7C10 (Concentrate)
126	MART-1; Clone M2-7C10 (Ready-To-Use)
138	MART-1; Clone M2-9E2 (Concentrate)
127	MART-1; Clone M2-9E2 (Ready-To-Use)
138	MART-1; Clones M2-7C10 & M2-9E3 (Concentrate)
127	MART-1; Clones M2-7C10 & M2-9E3 (Ready-To-Use)
138	Melanoma Associated Antigen; Clone KBA.62 (Concentrate)
127	Melanoma Associated Antigen; Clone KBA.62 (Ready-To-Use)
138	Melanoma; Clone HMB45 (Concentrate)
127	Melanoma; Clone HMB45 (Ready-To-Use)
138	Melanoma; Pan (Concentrate)
127	Melanoma; Pan (Ready-To-Use)
127	MIC2 Gene Protein, CD99; Clone HO36-1.1 (Ready-To-Use)
128	MSH6; Clone EP49 (Ready-To-Use)
138	MUC5AC (Gastric Mucin); Clone 45M1 (Concentrate)
128	MUC5AC (Gastric Mucin); Clone 45M1 (Ready-To-Use)

144	Myoglobin	139	p53; Clone BP53-12 (Concentrate)
138	Napsin A; Clones NAPSAs/1238 & NAPSAs/1239 (Concentrate)	129	p53; Clone BP53-12 (Ready-To-Use)
128	Napsin A; Clones NAPSAs/1238 & NAPSAs/1239 (Ready-To-Use)	129	p53; Clone DO-1 (Ready-To-Use)
138	Neurofilament; Clone 2F11 (Concentrate)	129	p53; Clone DO-7 (Ready-To-Use)
128	Neurofilament; Clone 2F11 (Ready-To-Use)	129	PCNA; Clone PC10
139	p21WAF1; Clone WA-1 (Concentrate)	139	Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Concentrate)
128	p21WAF1; Clone WA-1 (Ready-To-Use)	129	Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Ready-To-Use)
144	p40 (DeltaNp63); Polyclonal (Concentrate)	144	PSA (Prostate Specific Antigen)
144	p40 (DeltaNp63); Polyclonal (Ready-To-Use)		
128	p53 Cocktail; Clones Pab 1801 plus DO-7	140	TTF-1; Clone 8G7G3/1 (Concentrate)
129	PSAP (Prostate Specific Acid Phosphatase); Clone PASE/4LJ	131	TTF-1; Clone 8G7G3/1 (Ready-To-Use)
139	Renal Cell Carcinoma (RCC); Clone 66.4.C2 (Concentrate)	140	Tyrosinase; Clone T311 (Concentrate)
130	Renal Cell Carcinoma (RCC); Clone 66.4.C2 (Ready-To-Use)	131	Tyrosinase; Clone T311 (Ready-To-Use)
139	S-100; Clone 4C4.9 (Concentrate)	144	Ubiquitin
130	S-100; Clone 4C4.9 (Ready-To-Use)	140	Uchl1 (PGP9.5); Clone 31A3 (Concentrate)
144	S-100; Polyclonal (Ready-To-Use)	131	Uchl1 (PGP9.5); Clone 31A3 (Ready-To-Use)
139	Secretory Component; Clone SC05 (Concentrate)	131	Vimentin; Clone SP20
130	Secretory Component; Clone SC05 (Ready-To-Use)	131	Vimentin; Clone V9
140	SOX10; Clone SOX10/991 (Concentrate)		
130	SOX10; Clone SOX10/991 (Ready-To-Use)		
140	Thyroglobulin; Clone 2H11 (Concentrate)		
140	Thyroglobulin; Clone 2H11 (Ready-To-Use)		
142	TTF-1 & Cytokeratin 5 Multiplex Cocktail; Clones 8G7G3/1 & EP42 (Ready-To-Use)		

DETECTION SYSTEMS

	CRF Anti-Polyvalent HRP Polymer	10	SensiTek HRP Anti-Mouse (DAB) Staining System
14	CRF Anti-Polyvalent HRP Polymer (DAB) Lab Pack	10	SensiTek HRP Anti-Mouse Lab Pack
14	CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit	10	SensiTek HRP Anti-Mouse Staining System
13	EconoTek Alk-Phos Anti-Polyvalent Lab Pack	10	SensiTek HRP Anti-Polyvalent (AEC) Staining System
13	EconoTek HRP Anti-Polyvalent (DAB)	10	SensiTek HRP Anti-Polyvalent (DAB) Staining System
13	EconoTek HRP Anti-Polyvalent Lab Pack	10	SensiTek HRP Anti-Polyvalent Lab Pack
13	EconTek Alk-Phos Anti-Polyvalent (Fast Red)	10	SensiTek HRP Anti-Polyvalent Staining System
15	Mouse to Mouse Alk-Phos (Permanent Red) Staining System	11	SensiTek HRP Anti-Rabbit (AEC) Staining System
15	Mouse to Mouse Alk-Phos Staining System	11	SensiTek HRP Anti-Rabbit (DAB) Staining System
16	Mouse to Mouse HRP (AEC) Staining System	11	SensiTek HRP Anti-Rabbit Lab Pack
16	Mouse to Mouse HRP (DAB) Staining System	11	SensiTek HRP Anti-Rabbit Staining System
16	Mouse to Mouse HRP Staining System	9	UltraTek Alkaline Phosphatase
16	Mouse-to-Mouse Blocking Reagent	8	UltraTek Alk-Phos Anti-Mouse (Permanent Red) Staining System
14	PolyTek Anti-Mouse (DAB) Polymerized HRP Imaging System	8	UltraTek Alk-Phos Anti-Mouse Lab Pack
14	PolyTek Anti-Mouse HRP Polymer (DAB) Large Volume Kit	8	UltraTek Alk-Phos Anti-Mouse Staining System
14	PolyTek Anti-Mouse Polymerized Alk-Phos	8	UltraTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System
14	PolyTek HRP Anti-Rabbit Polymerized Imaging System	8	UltraTek Alk-Phos Anti-Polyvalent Lab Pack
15	PolyTek, Anti-Mouse Polymerized HRP	8	UltraTek Alk-Phos Anti-Polyvalent Staining System
15	PolyTek, Anti-Rabbit Polymerized Alk-Phos	9	UltraTek Alk-Phos Anti-Rabbit (Permanent Red) Staining System
15	PolyTek, Anti-Rabbit Polymerized HRP	9	UltraTek Alk-Phos Anti-Rabbit Lab Pack
17	Pro-Block	9	UltraTek Alk-Phos Anti-Rabbit Staining System
16	Rabbit-to-Rabbit Blocking Reagent	9	UltraTek Anti-Goat
7	Retrieval HRP Anti-Polyvalent Lab Pack	9	UltraTek Anti-Mouse
12	SensiTek Alkaline Phosphatase	9	UltraTek Anti-Polyvalent
12	SensiTek Alk-Phos Anti-Mouse (Fast Red) Staining System	10	UltraTek Anti-Rabbit
12	SensiTek Alk-Phos Anti-Mouse Lab Pack	10	UltraTek Horseradish Peroxidase
12	SensiTek Alk-Phos Anti-Mouse Staining System	7	UltraTek HRP Anti-Mouse (AEC) Staining System
12	SensiTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System	7	UltraTek HRP Anti-Mouse (DAB) Staining System
12	SensiTek Alk-Phos Anti-Polyvalent Lab Pack	7	UltraTek HRP Anti-Mouse Lab Pack
12	SensiTek Alk-Phos Anti-Polyvalent Staining System	7	UltraTek HRP Anti-Mouse Staining System
12	SensiTek Alk-Phos Anti-Rabbit (Fast Red) Staining System	7	UltraTek HRP Anti-Polyvalent (AEC) Staining System
12	SensiTek Alk-Phos Anti-Rabbit Lab Pack	7	UltraTek HRP Anti-Polyvalent (DAB) Staining System
12	SensiTek Alk-Phos Anti-Rabbit Staining System	7	UltraTek HRP Anti-Polyvalent Lab Pack
12	SensiTek Anti-Mouse	7	UltraTek HRP Anti-Polyvalent Staining System
12	SensiTek Anti-Polyvalent	8	UltraTek HRP Anti-Rabbit (AEC) Staining System
12	SensiTek Anti-Rabbit	8	UltraTek HRP Anti-Rabbit (DAB) Staining System
12	SensiTek Horseradish Peroxidase	8	UltraTek HRP Anti-Rabbit Lab Pack
10	SensiTek HRP Anti-Mouse (AEC) Staining System	8	UltraTek HRP Anti-Rabbit Staining System

CHROMOGENS AND ANCILLARY

20	AEC Chromogen Concentrate	27	CoreDish Prostate Biopsy Container with 10% Formalin
20	AEC Chromogen/Substrate Bulk Kit	28	CoreDish Upper GI Tract
19	AEC Chromogen/Substrate Kit	19	DAB (Post) Enhancing Solution
20	AEC Substrate Buffer	19	DAB Away Kit
20	Alkaline Phosphatase Enhancer	20	DAB Chromogen Concentrate
20	Alk-Phos Blue Kit	19	DAB Chromogen/Substrate Bulk pack
22	Alk-Phos Stabilizing Diluent	19	DAB Chromogen/Substrate Bulk Pack (High Contrast)
20	BCIP/INT Solution	19	DAB Chromogen/Substrate Kit
21	BCIP/NBT Solution	19	DAB Chromogen/Substrate Kit (High Contrast)
27	Blue Base for Dissecting Board	20	DAB Differentiating Solution
145	Bluing Reagent	20	DAB Enhancer Solution
27	Cassettes in QuickLoad Sleeves	20	DAB Substrate (High Contrast)
23	Citrate Buffer (10x) pH 6.0	20	DAB Substrate Buffer
23	Citrate Plus (10x) HIER Solution	28	Dissecting Board
27	CoreDish for Lower GI Track Biopsies	28	Dissecting Board Jr.
27	CoreDish for Prostate Biopsies	28	EasyDip Slide Staining System

28	EASYDIP Stainless Steel Holder
23	EDTA - Saline Buffer (10X Concentrate); pH 8.0
22	Enzyme Label Diluent
29	Metal Lid for M480 Cassette
145	Michel's Transport Fluid
145	Michel's Transport Wash Buffer
23	Normal Antibody Diluent (Phosphate Buffered)
23	Normal Antibody Diluent (Phosphate Buffered) without BSA
23	Normal Antibody Diluent (Tris Buffered)
17	Peroxide Block
17	Peroxide Block for Image Analysis
24	Phosphate Buffer Solution, pH 6.8
24	Phosphate Buffered Saline (10x) pH 7.4
24	Phosphate Buffered Saline (25x) pH 7.6
24	Phosphate Buffered Saline plus Tween 20 (10x) pH 7.4
24	Phosphate Buffered Saline plus Tween 20 (20x) pH 7.6

23	Primary Antibody Diluent (Phosphate, Green)
23	Primary Antibody Diluent (Tris, Green)
22	Primary Antibody Dropper Vial
29	Slide Master
29	Slidefile Storage System 100 Positions
147	SSPE Buffer (20x) pH 7.4
29	Stain Tray Slide Staining System
25	Tris Buffered Saline (10x) pH 7.5
25	Tris Buffered Saline (25x) pH 7.4
25	Tris Buffered Saline plus Tween 20 (10x) pH 7.5
25	Tris Buffered Saline plus Tween 20 (20x Concentrate) pH 7.4
25	Tris-EDTA HIER Solution (10x) pH 9.0
24	Trypsin Enzymatic Digestion Kit
22	Tween 20
146	Wash Solution Concentrate (50X)
22	Water, Deionized/Distilled



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