



Mouse Anti-Cytokeratin 8 antibody

SLM-33061M

Product Name Cytokeratin 8**Chinese Name** 细胞角蛋白 8 单克隆抗体**Alias** card2; Cardiac autoantigen 2 120kD; CK 8; CK8; CK-8; ck8; Cyk 8; cyk8; CYKER; Cytokeratin endo A; Cytokeratin-8; Cytokeratin8; DreK8; EndoA; k0; CYK8; k2c8; K2C8_HUMAN; k8; Keratin 8; Keratin type ii cytoskeletal 8; Keratin, type II cytoskeletal 8; Keratin-8; Keratin8; KO; Krt 2.8; Krt 8; krt8; KRT-8; MGC118110; MGC174782; MGC53564; MGC85764; sb:cb186; Type-II keratin Kb8.**Research Area** Tumour Cell biology Signal transduction**Immunogen Species** Mouse**Clonality** Monoclonal**Clone NO.** 10A8**React Species** Human,Mouse,Rat**Applications** IHC-P=1:100-500,IHC-F=1:100-500,IF=1:200-800,Flow-Cyt=1ug/Test (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.**Theoretical molecular weight** 53kDa**Cellular localization** The nucleus cytoplasmic The cell membrane**Form** Liquid**Concentration** 1mg/ml**immunogen** Recombinant human CK8**Lsotype** IgG**Purification** affinity purified by Protein G**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

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This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012].

Function:

Together with KRT19, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.

Subunit:

Heterotetramer of two type I and two type II keratins. KRT8 associates with KRT18. Associates with KRT20. Interacts with HCV core protein and PNN. When associated with KRT19, interacts with DMD. Interacts with TCHP. Interacts with APEX1.

Product Detail

Subcellular Location:

Cytoplasm. Nucleus, nucleoplasm. Nucleus matrix.

Tissue Specificity:

Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma membrane in structures that contain dystrophin and spectrin. Expressed in gingival mucosa and hard palate of the oral cavity.

Post-translational modifications:

Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Ser-74 phosphorylation plays an important role in keratin filament reorganization. O-glycosylated. O-GlcNAcylation at multiple sites increases solubility, and decreases stability by inducing proteasomal degradation. O-glycosylated (O-GlcNAcylated), in a cell cycle-dependent manner.

DISEASE:

Defects in KRT8 are a cause of cirrhosis (CIRRH) [MIM:215600].

Similarity:

Belongs to the intermediate filament family.

SWISS:

P05787

Gene ID:
3856

Database links:

[Entrez Gene: 3856](#) Human

[Entrez Gene: 16691](#) Mouse

[Entrez Gene: 25626](#) Rat

[Omim: 148060](#) Human

[SwissProt: P05787](#) Human

[SwissProt: P11679](#) Mouse

[SwissProt: Q10758](#) Rat

[Unigene: 533782](#) Human

[Unigene: 708445](#) Human

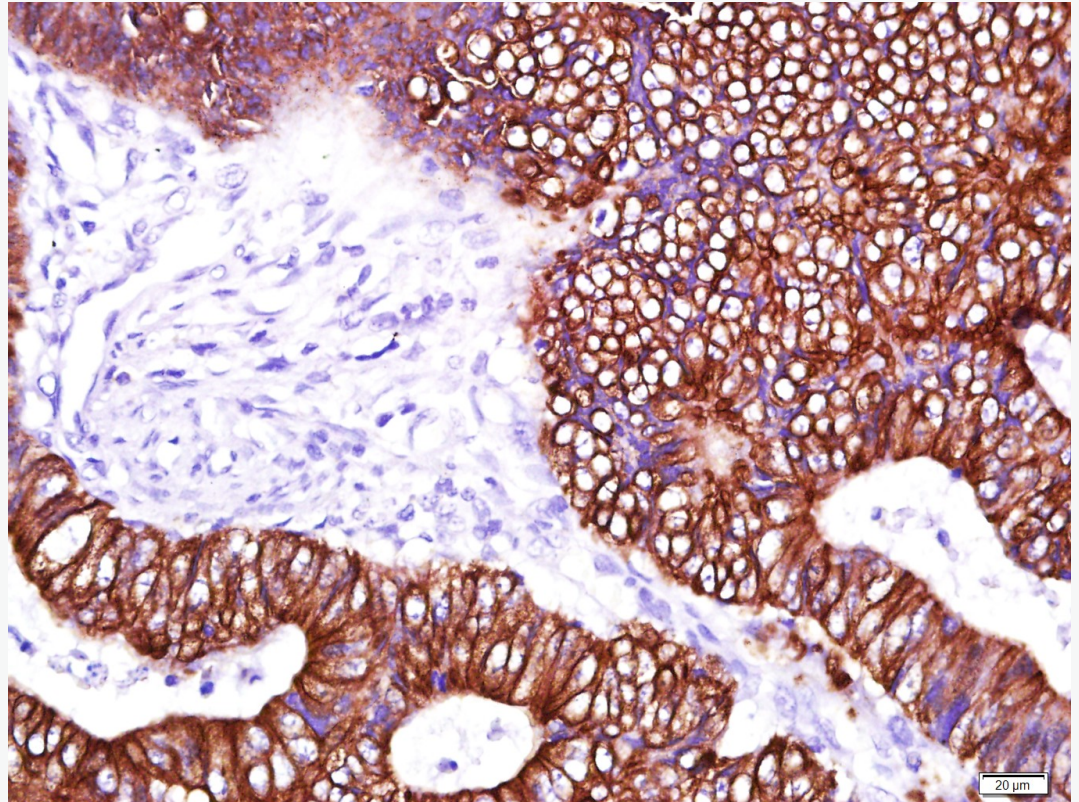
[Unigene: 358618](#) Mouse

[Unigene: 11083](#) Rat

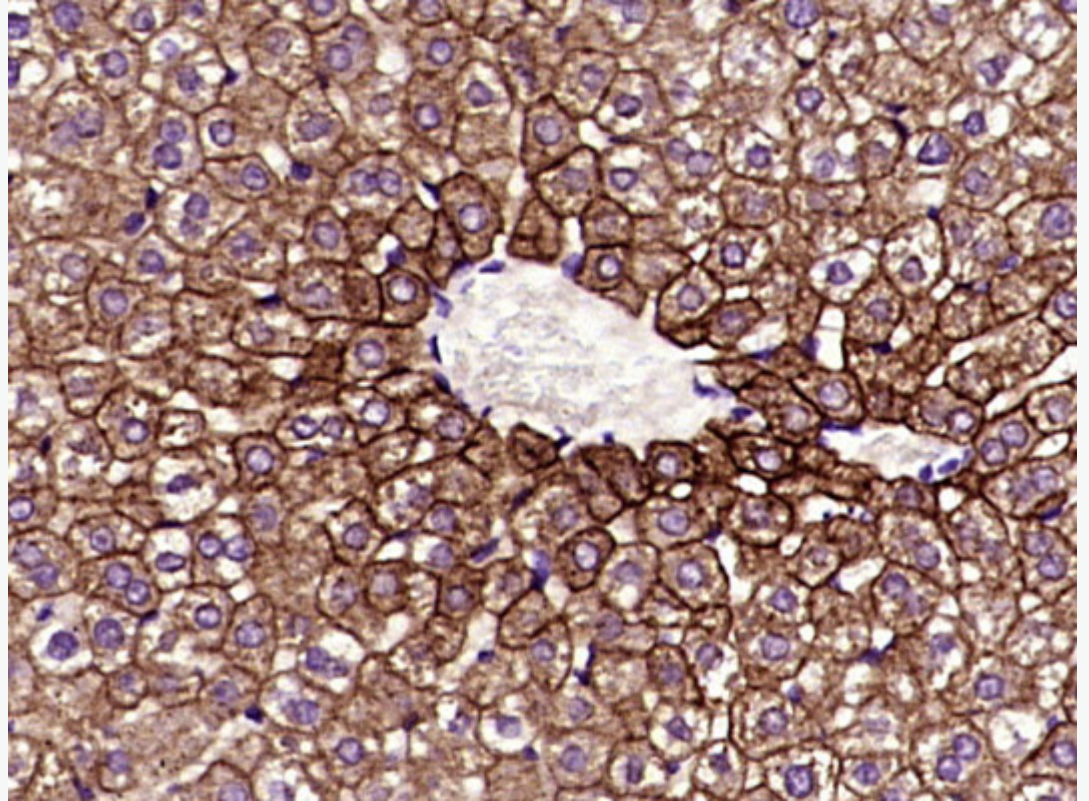
结构蛋白（Structural Proteins）

epithelial cells 胞质中的骨架蛋白除微丝（肌动蛋白）、微管蛋白外，主要是细胞角蛋白（cytokeratins, CK）。CK8 也是 epithelial cells 的特征性标记物：CK8 存在于某些正常腺上皮及其 Tumour，包括许多导管上皮和腺上皮，如结肠、胃、小肠、气管的上皮和尿路上皮。CK8 主要用于腺癌和导管癌的诊断，鳞状细胞癌一般不表达 CK8。

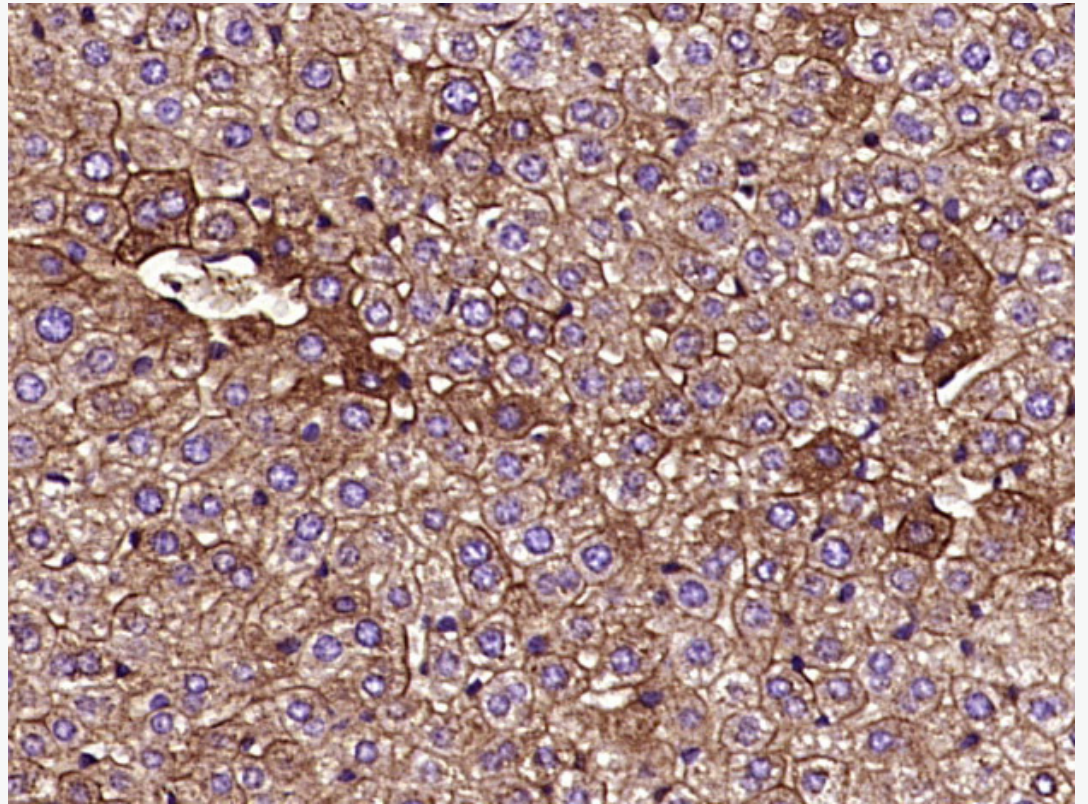
**Product
Picture**



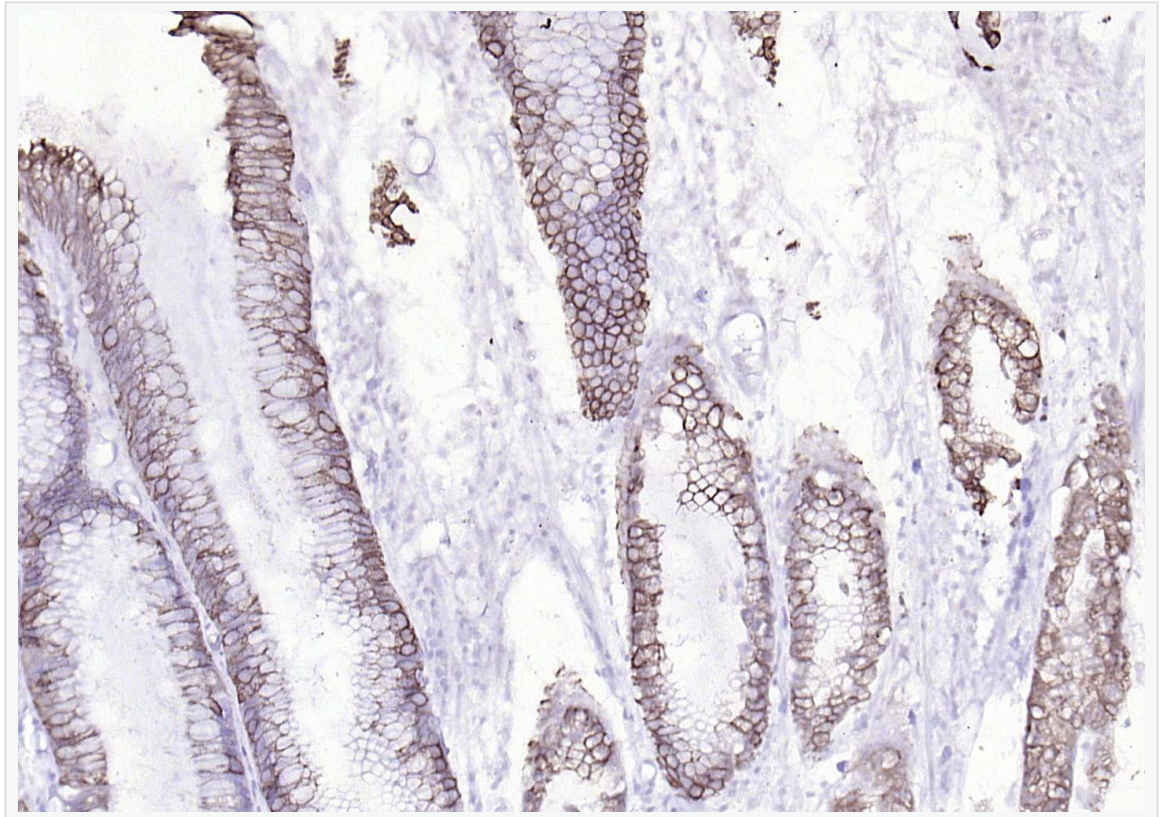
Paraformaldehyde-fixed, paraffin embedded (Human colon cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytokeratin 8) Monoclonal Antibody, Unconjugated (SLM-33061M) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



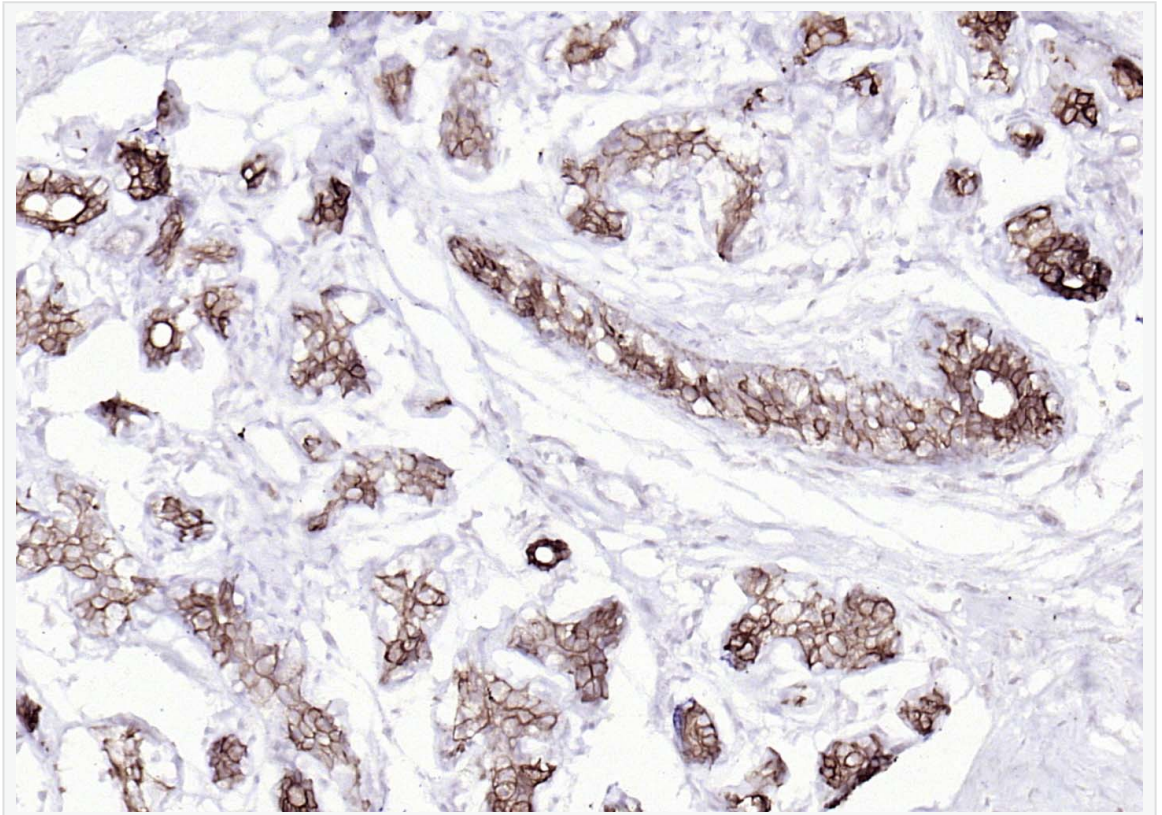
Paraformaldehyde-fixed, paraffin embedded (mouse liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytokeratin 8) Monoclonal Antibody, Unconjugated (SLM-33061M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



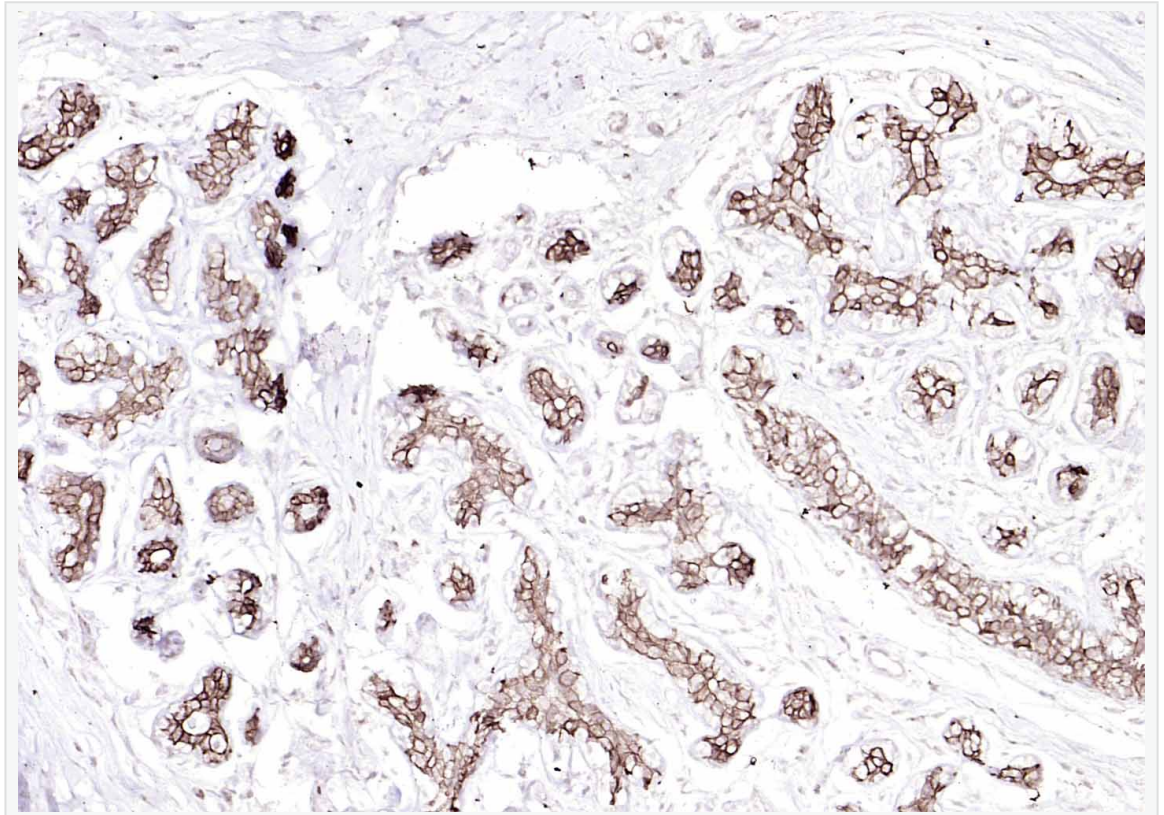
Paraformaldehyde-fixed, paraffin embedded (rat liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytokeratin 8) Monoclonal Antibody, Unconjugated (SLM-33061M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



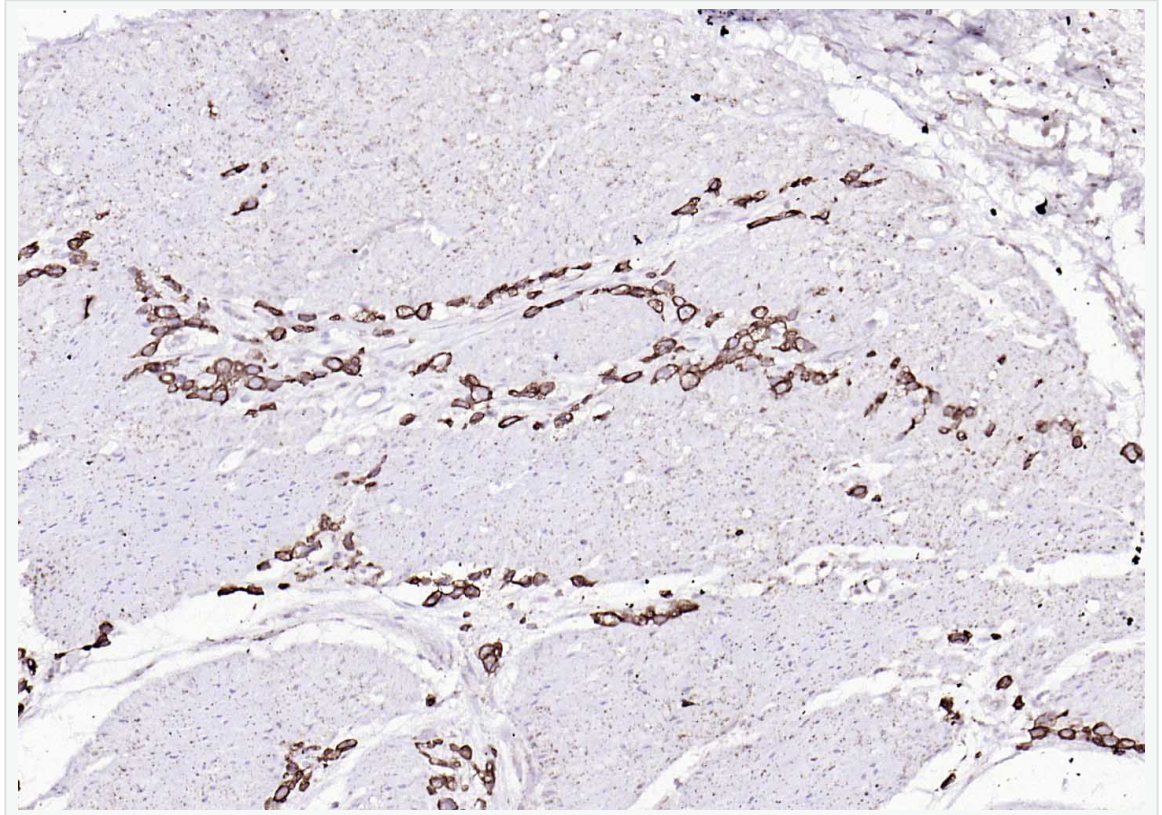
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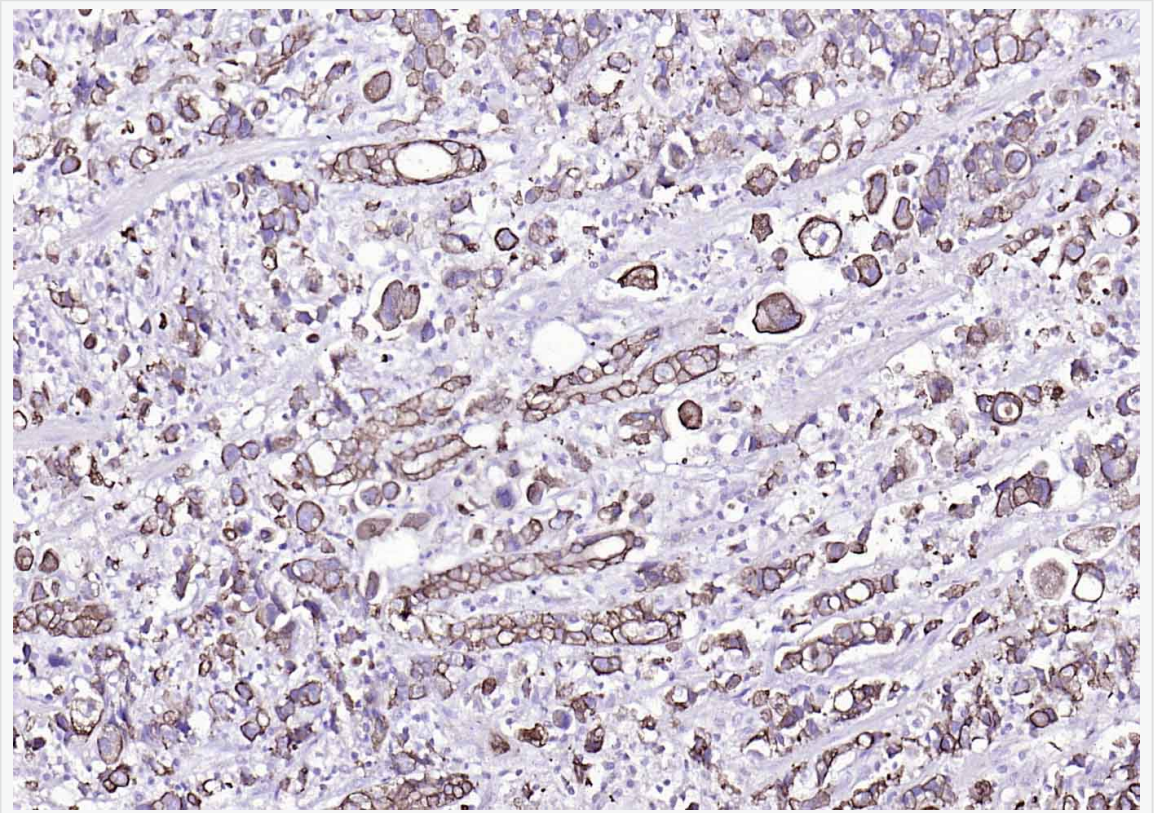
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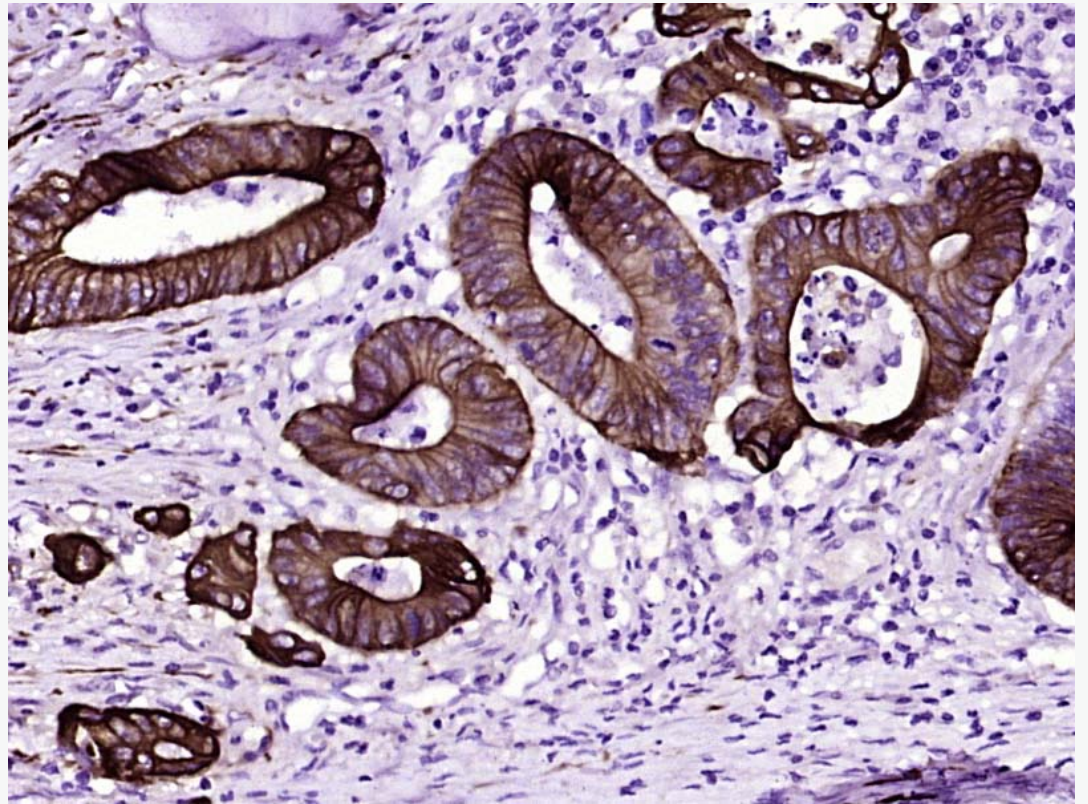
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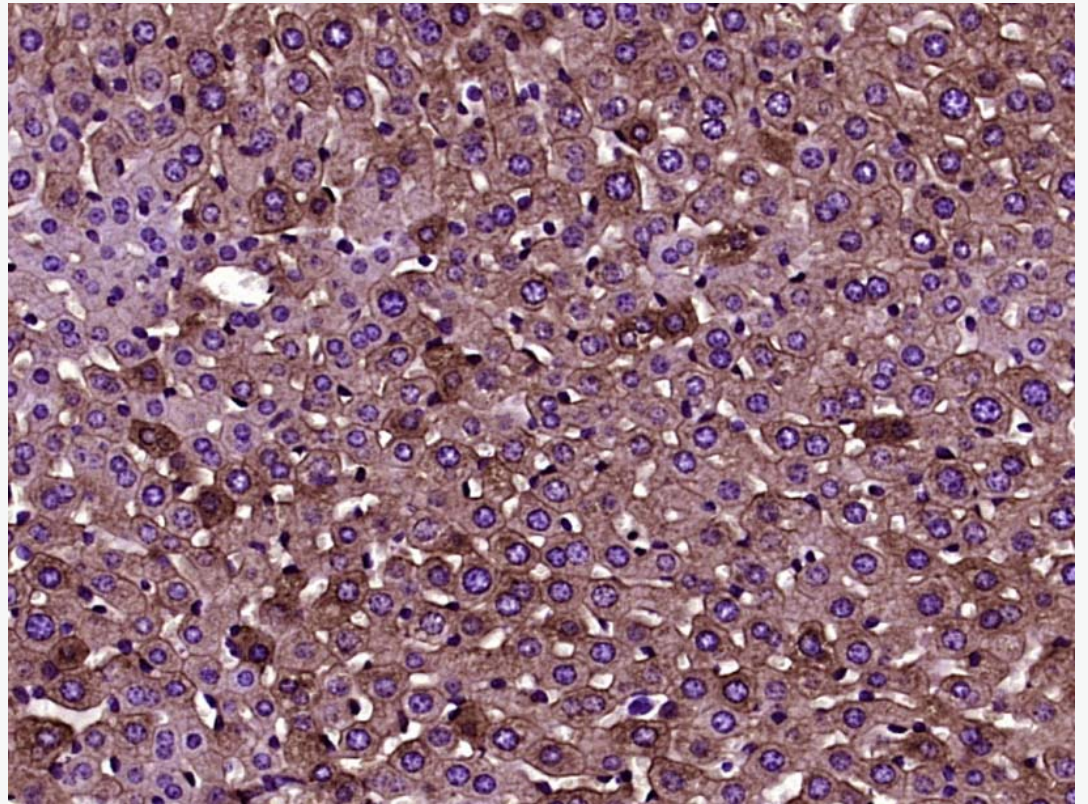
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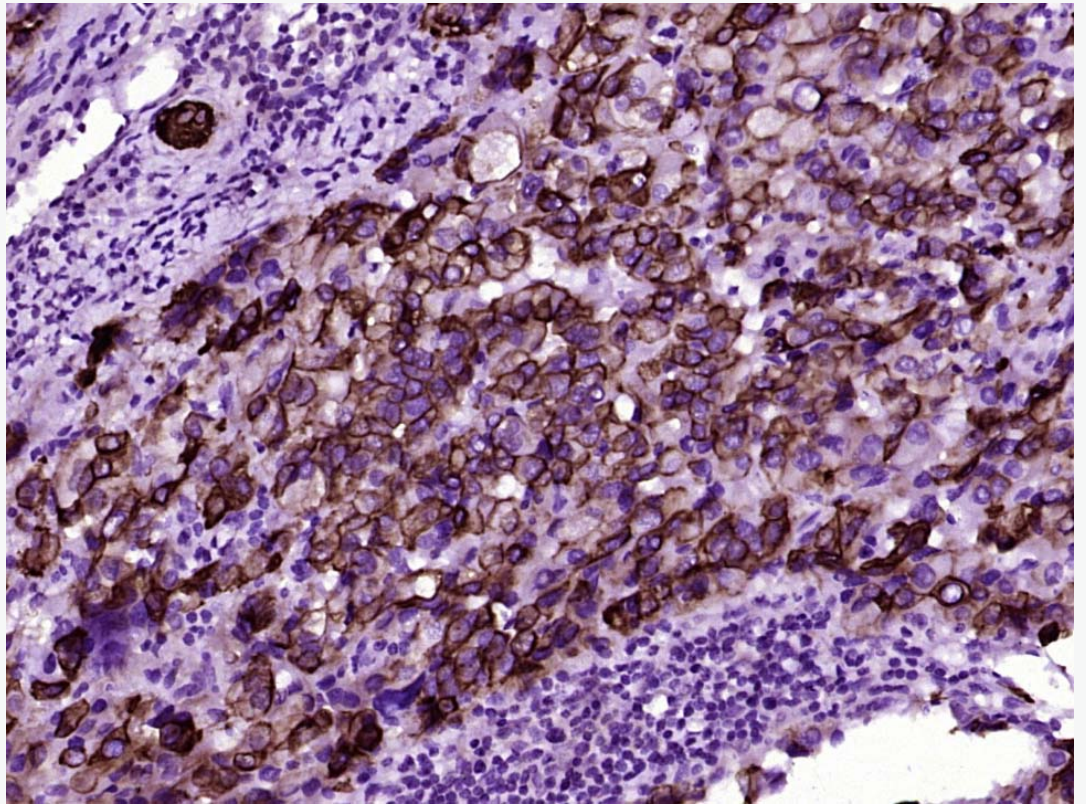
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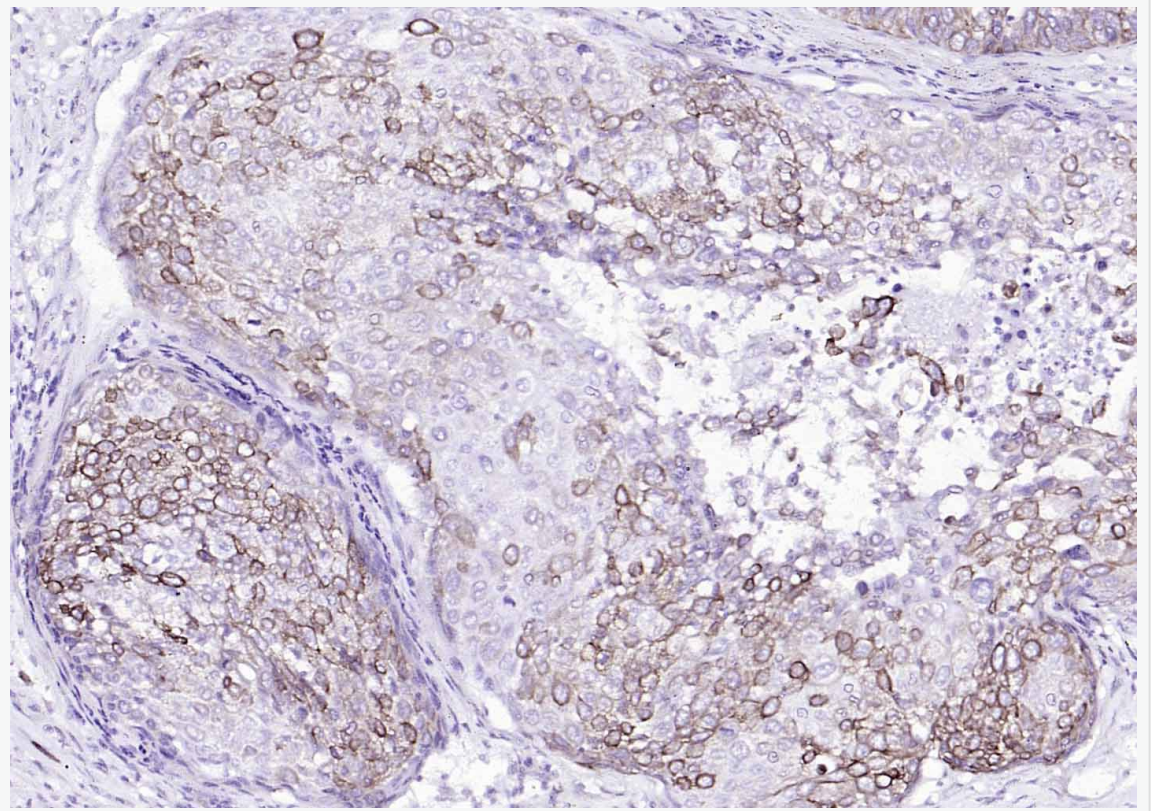
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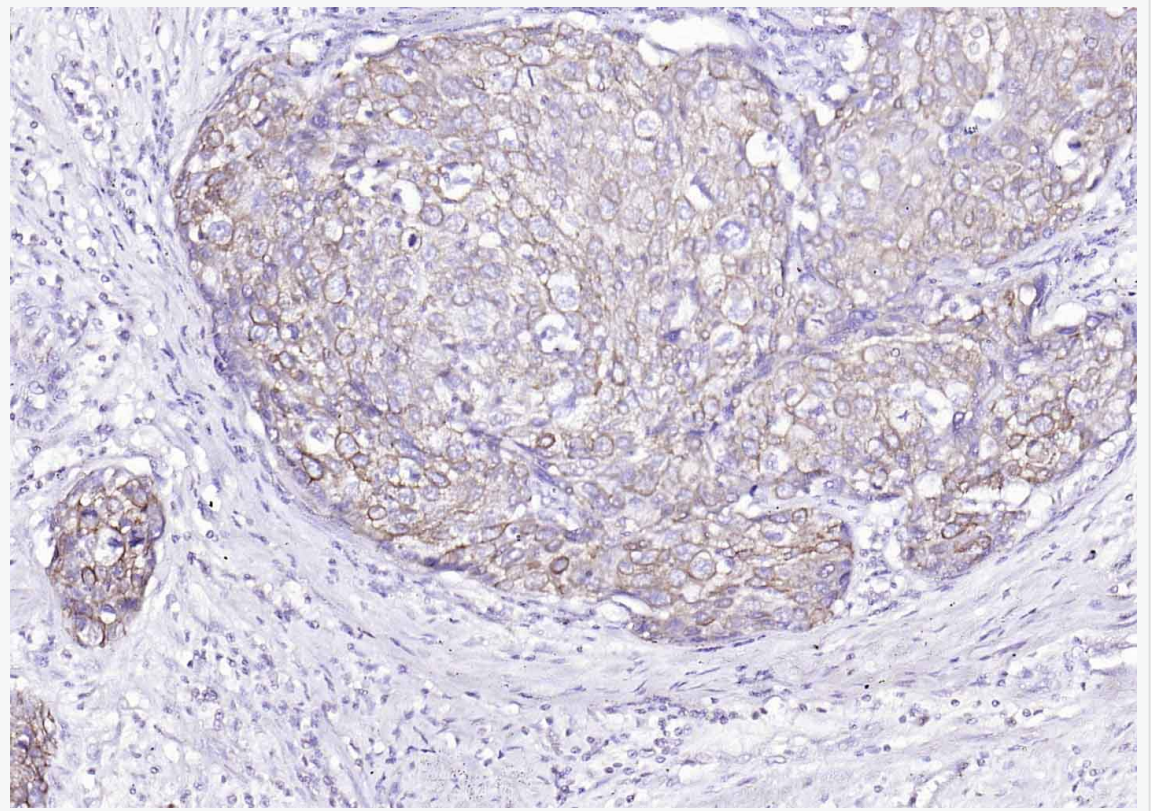
Paraformaldehyde-fixed, paraffin embedded (Mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytokeratin 8) Monoclonal Antibody, Unconjugated (ascites of SLM-33061M 10A8) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB s



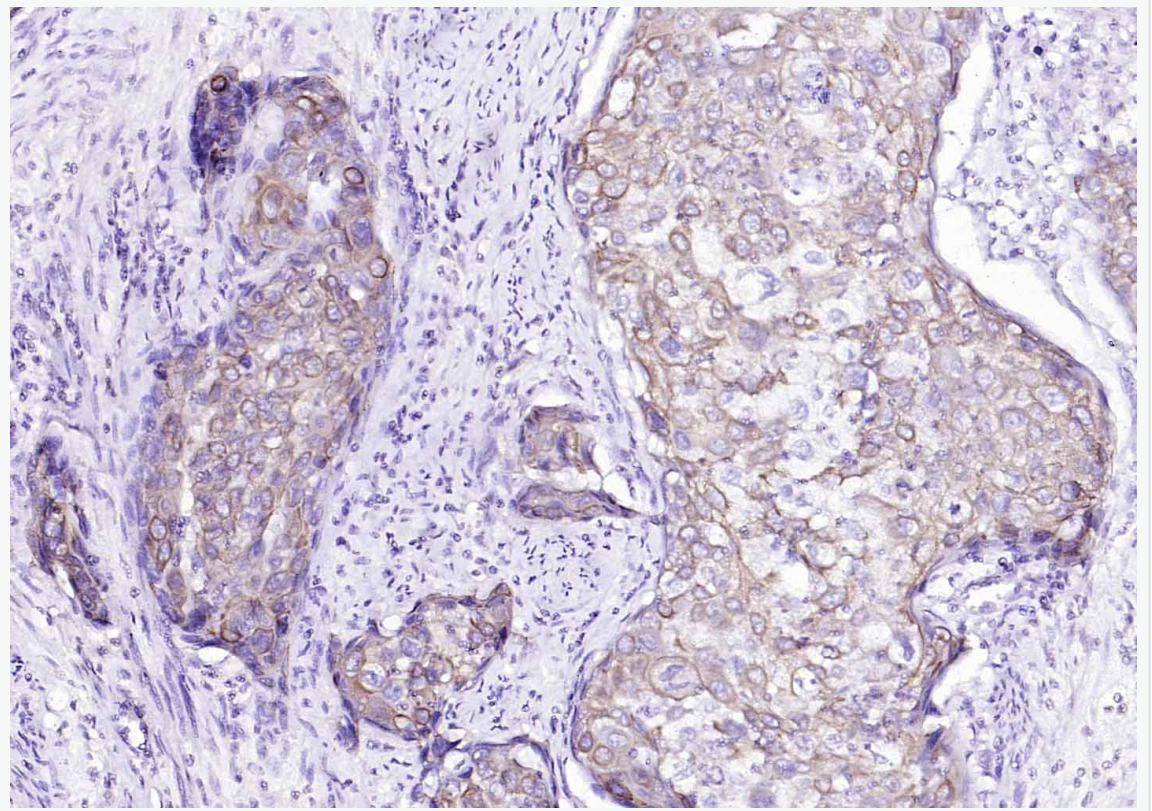
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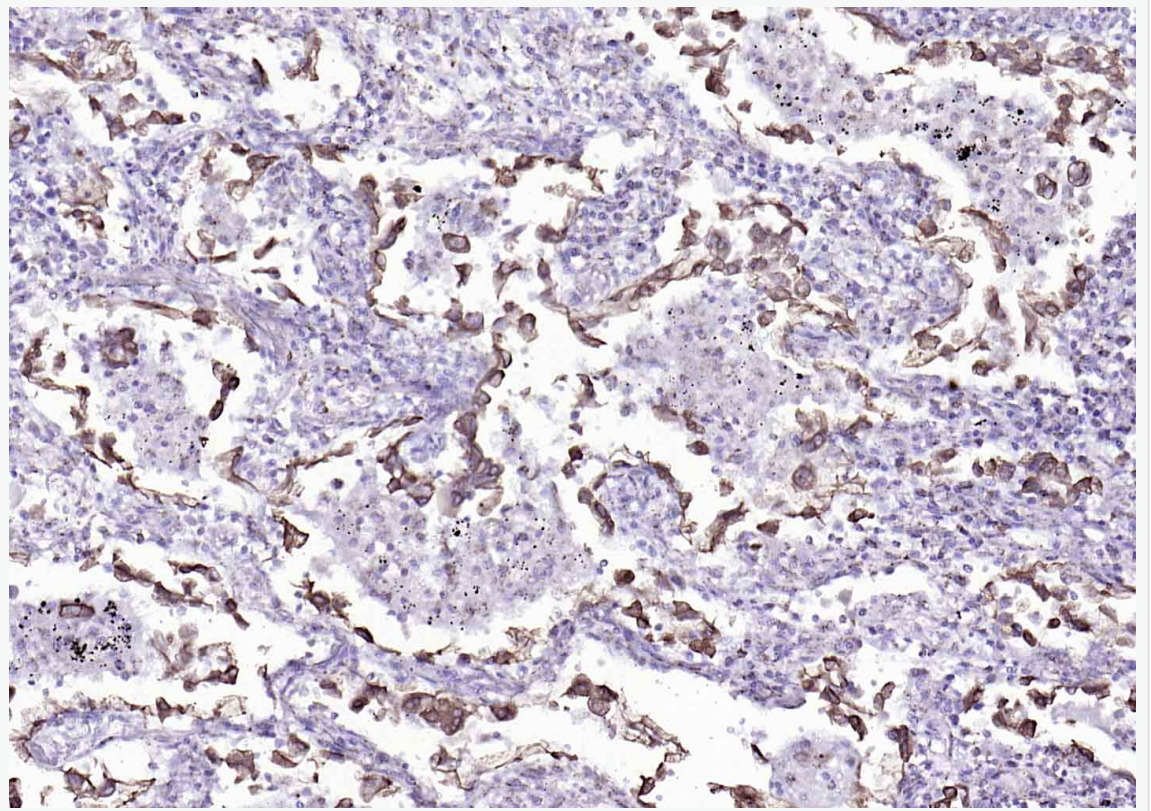
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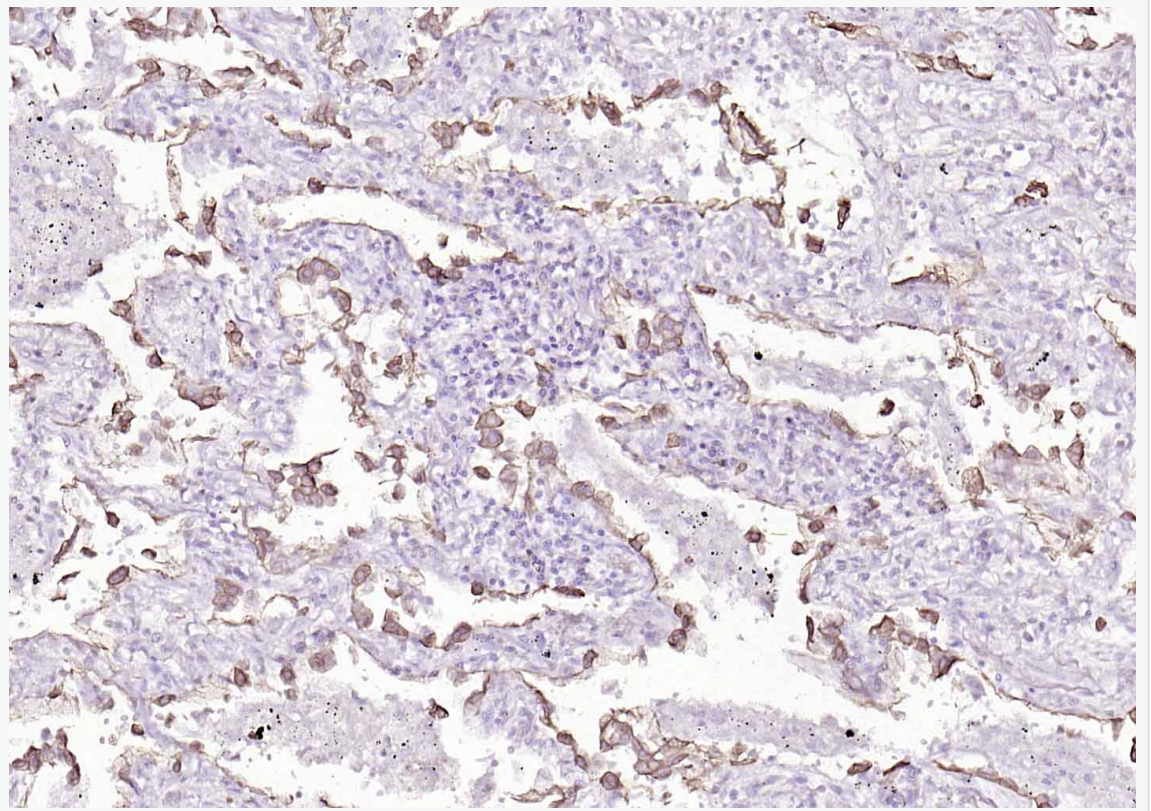
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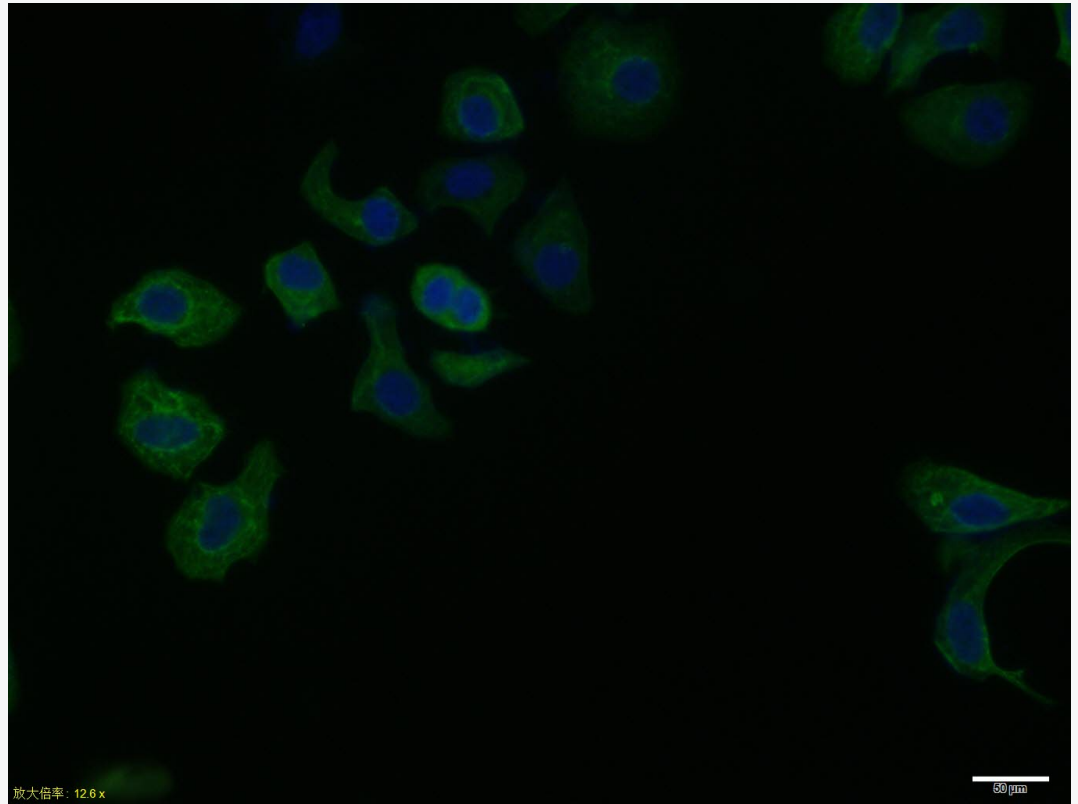
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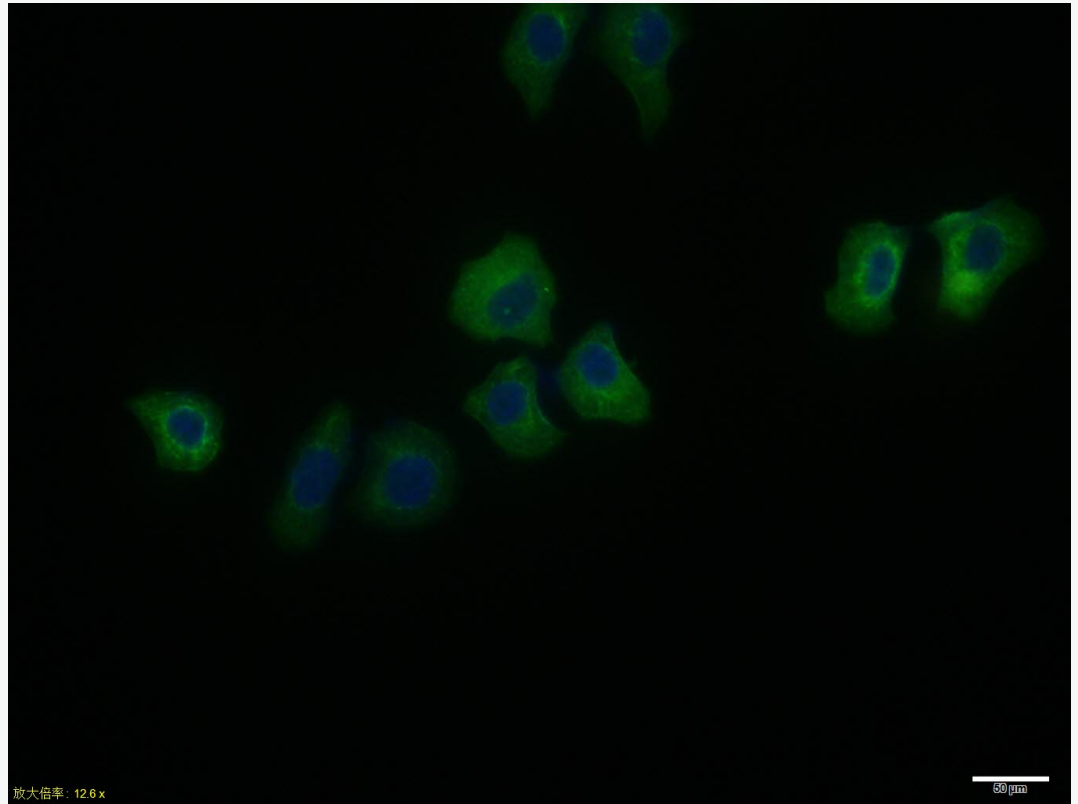
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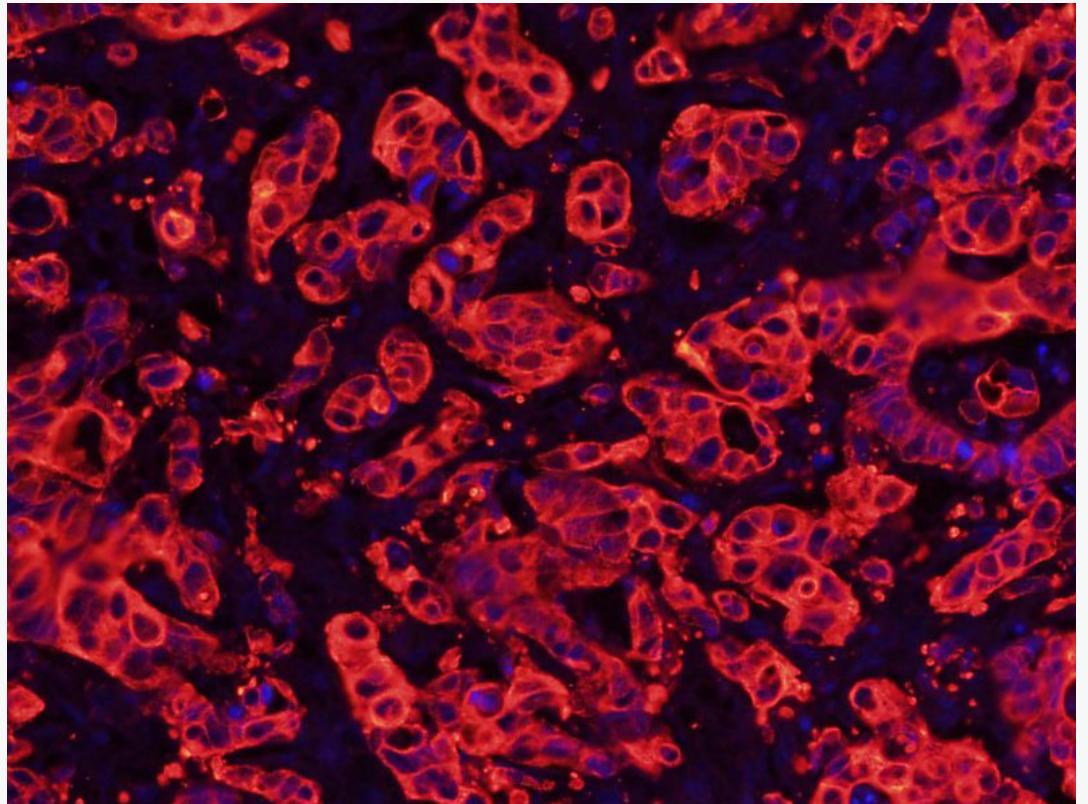
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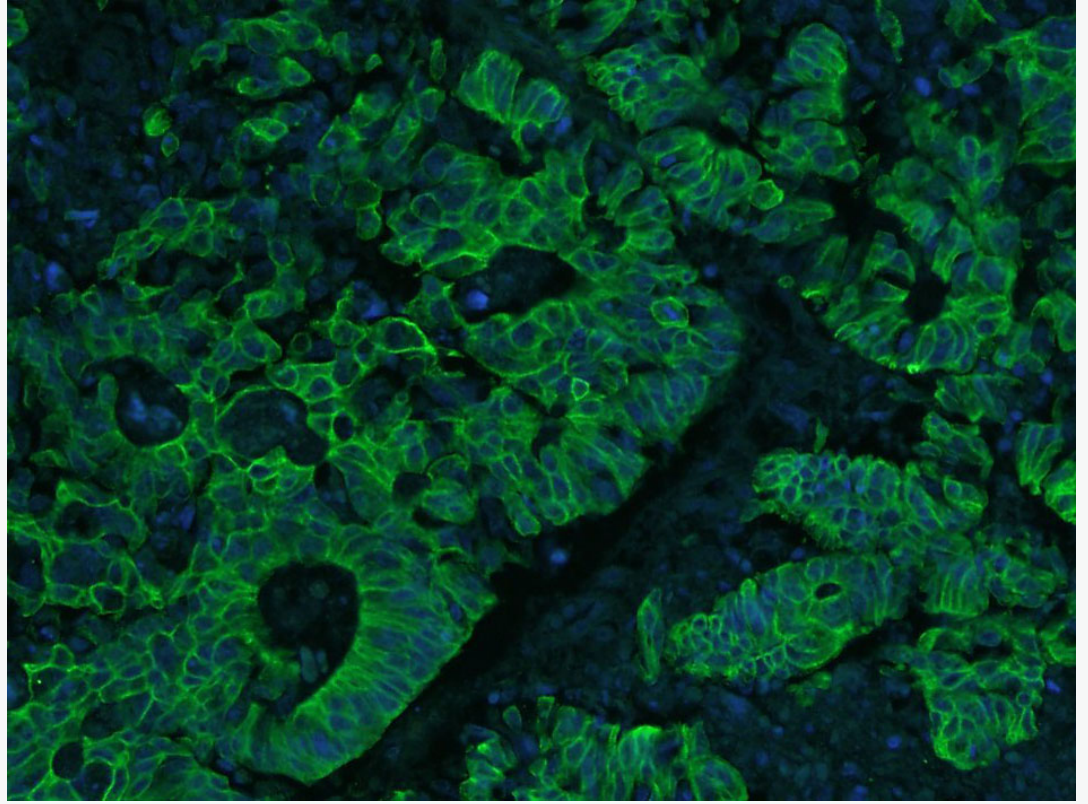
HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Cytokeratin 8) monoclonal Antibody, Unconjugated (SLM-33061M) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



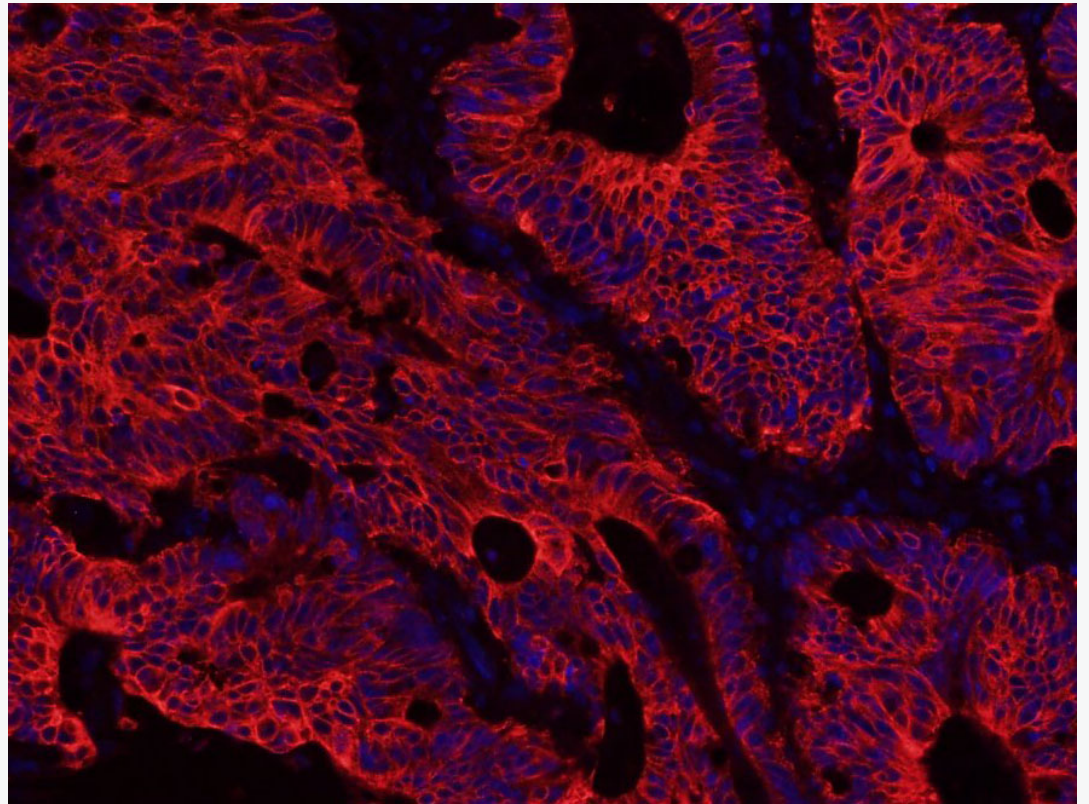
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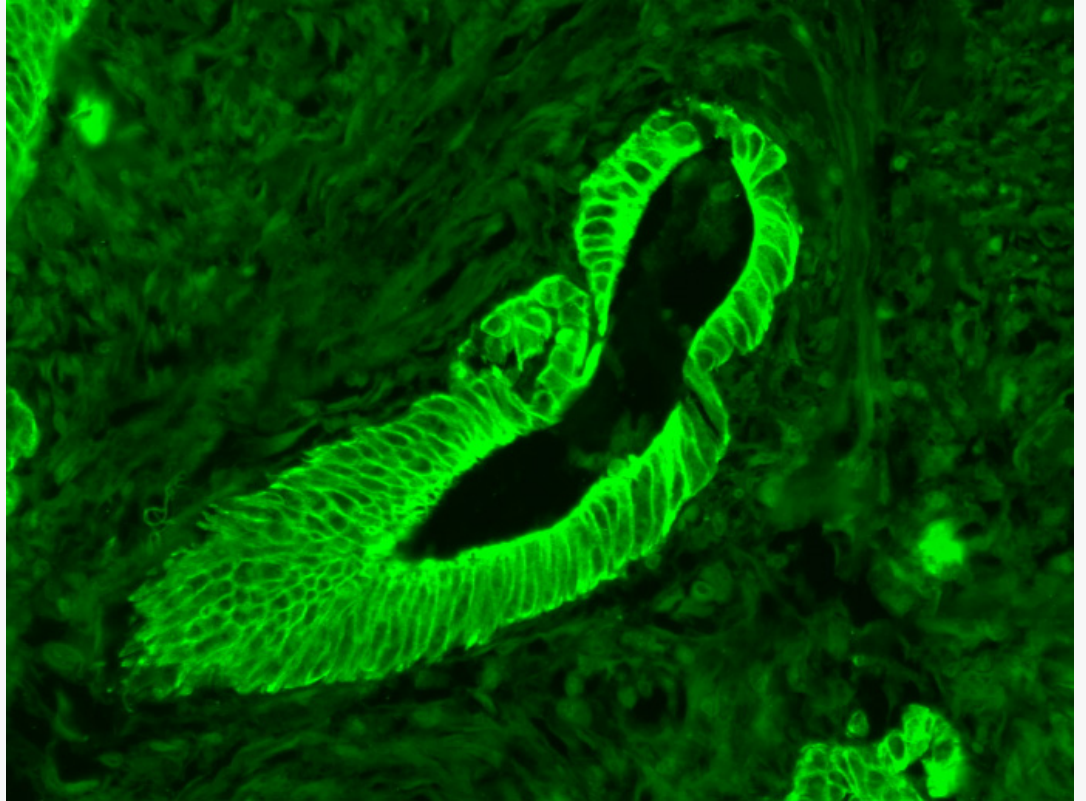
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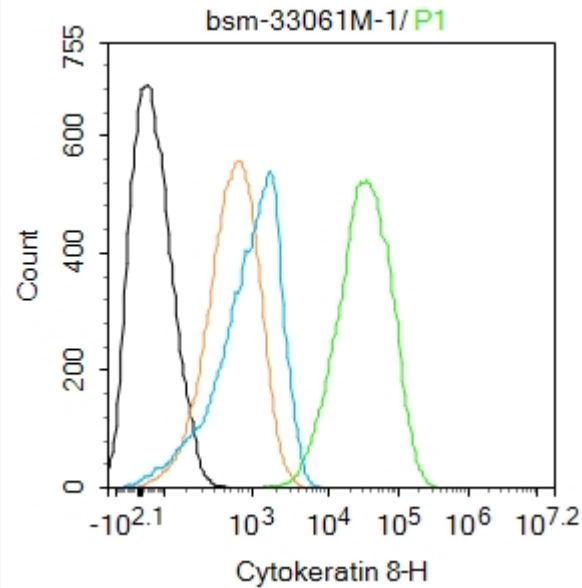
Paraformaldehyde-fixed, paraffin embedded (Human stomach cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytokeratin 8) Monoclonal Antibody, Unconjugated (SLM-33061M) at 1:500 overnight at 4°C, followed by a conjugated Goat Anti-Mouse IgG antibody (SL0296G-FITC) for 90 minutes, and DAPI for nuclei staining.



Paraformaldehyde-fixed, paraffin embedded (Human colon cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytokeratin 8) Monoclonal Antibody, Unconjugated (SLM-33061M) at 1:500 overnight at 4°C, followed by a conjugated Goat Anti-Mouse IgG antibody (SL0296G-CY3) for 90 minutes, and DAPI for nuclei staining.



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Blank control: MCF-7.

Primary Antibody (green line): Mouse Anti-Cytokeratin 8 antibody (SLM-33061M)

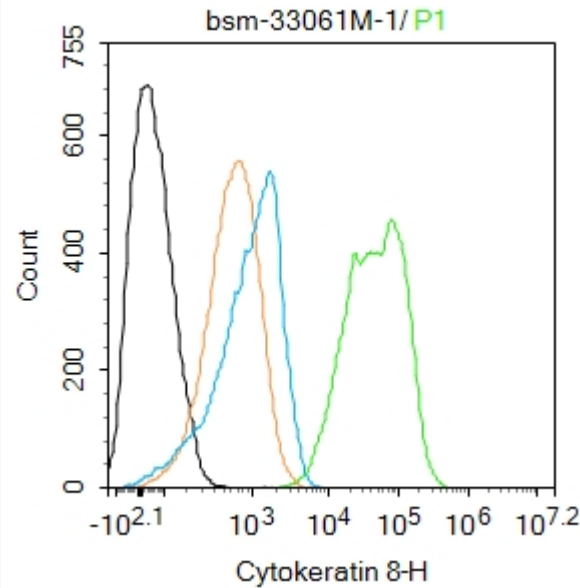
Dilution: 1ug/Test;

Secondary Antibody : Goat anti-mouse IgG-FITC

Dilution: 0.5ug/Test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



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Primary Antibody (green line): Mouse Anti-Cytokeratin 8 antibody (SLM-33061M)

Dilution: 1ug/Test;

Secondary Antibody : Goat anti-mouse IgG-FITC

Dilution: 0.5ug/Test.

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