

Mouse Anti-CK7 antibody

SLM-33060M

Product Name CK7

Chinese Name 细胞角蛋白 7 单克隆抗体

Alias Cytokeratin 7; CK 7; K7; Keratin 7; Keratin,type II cytoskeletal 7; KRT7; SCL; K2C7_HUMAN

Research Area Tumour Signal transduction

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 10E3

React Species Human,Mouse,Rat

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-C
(Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 54kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human CK7

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 [PubMed](#)

Product The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratin

Detail

basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the simple epithelia lining the cavities of the internal organs and in the gland ducts and blood vessels. The genes encoding the type II cytokeratins are clustered in a region of chromosome 12q12-q13. Alternative splicing may result in several transcript variants; however, not all variants have been fully described. [provided by RefSeq, Jul 2008]

Function:

Blocks interferon-dependent interphase and stimulates DNA synthesis in cells. Involved in the transcriptional regulation of the human papillomavirus type 16 E7 mRNA (HPV16 E7).

Subunit:

Heterotetramer of two type I and two type II keratins. Interacts with eukaryotic translation initiation factor (eIF3) subunit EIF3S10 and with HPV16 E7.

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Expressed in cultured epidermal, bronchial and mesothelial cells but absent in colon, ectocervix and esophagus. Observed throughout the glandular cells in the junction between stomach and esophagus but is absent in the esophagus.

Post-translational modifications:

Arg-20 is dimethylated, probably to asymmetric dimethylarginine.

Similarity:

Belongs to the intermediate filament family.

SWISS:

P08729

Gene ID:

3855

Database links:

[Entrez Gene: 3855](#) Human

[Omim: 148059](#) Human

[SwissProt: P08729](#) Human

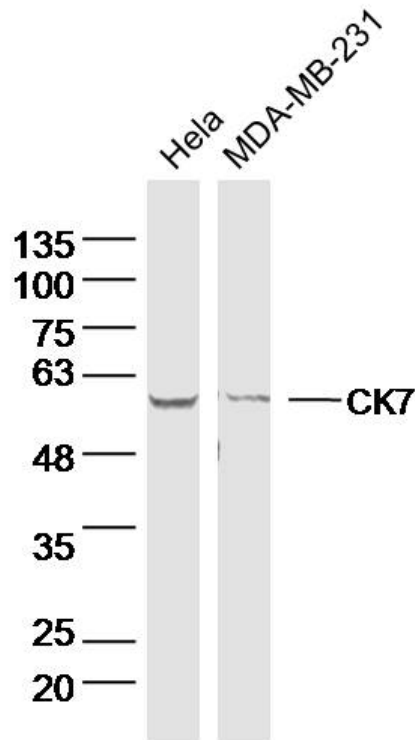
[Unigene: 411501](#) Human

[Unigene: 670221](#) Human

结构蛋白 (Structural Proteins)

CK-7 是一种 54KDa 的中间丝蛋白, 存在于大多数正常组织的腺上皮和移行 epithelial cell 体与多种良/恶性上皮性 Tumour 反应。腺癌中的卵巢、乳腺、肺的腺癌呈阳性反应, 而胃阴性。移行细胞 Tumour、前列腺癌也呈阳性反应。通常认为 CK7 是腺癌和移行 epithelial 比较特异性的标志。

Product
Picture



Sample:

HeLa (human) Cell Lysate at 40 ug

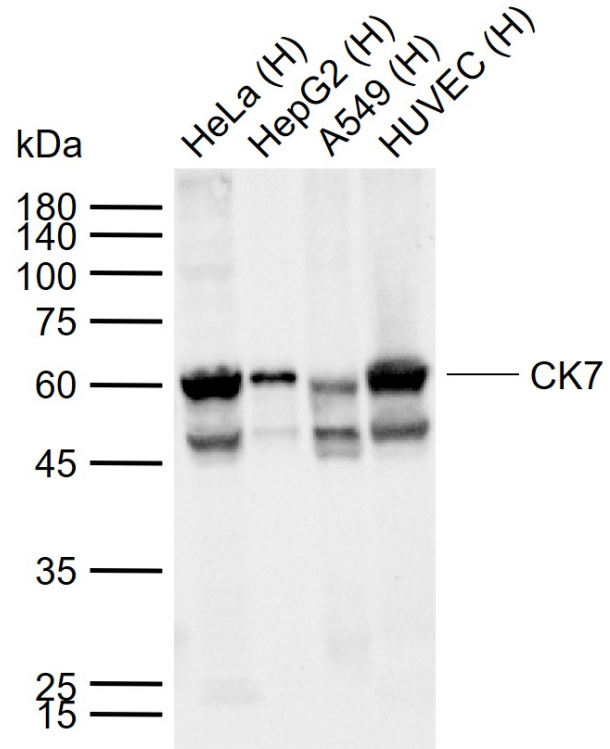
MDA-MB-231 (human) Cell Lysate at 40 ug

Primary: Anti-CK7 (SLM-33060M) at 1/2000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 54 kD

Observed band size: 54 kD



Sample:

Lane 1: Human HeLa cell lysates

Lane 2: Human HepG2 cell lysates

Lane 3: Human A549 cell lysates

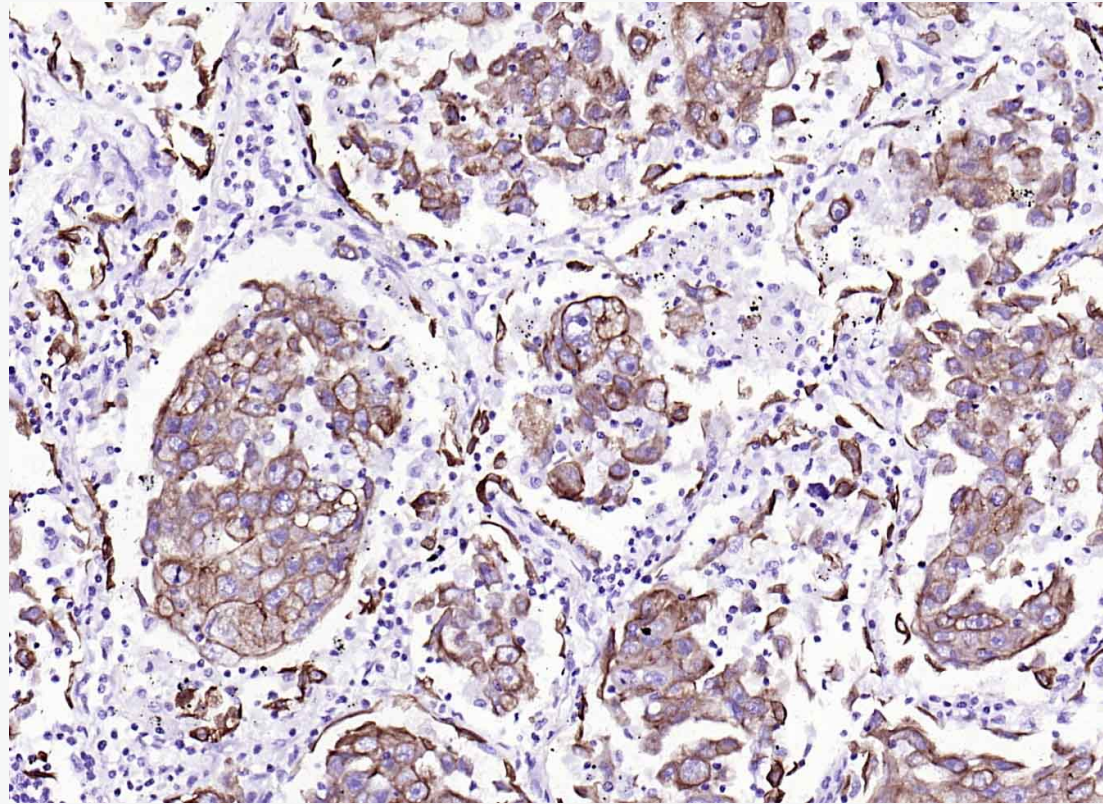
Lane 4: Human HUVEC cell lysates

Primary: Anti-CK7 (SLM-33060M) at 1/1000 dilution

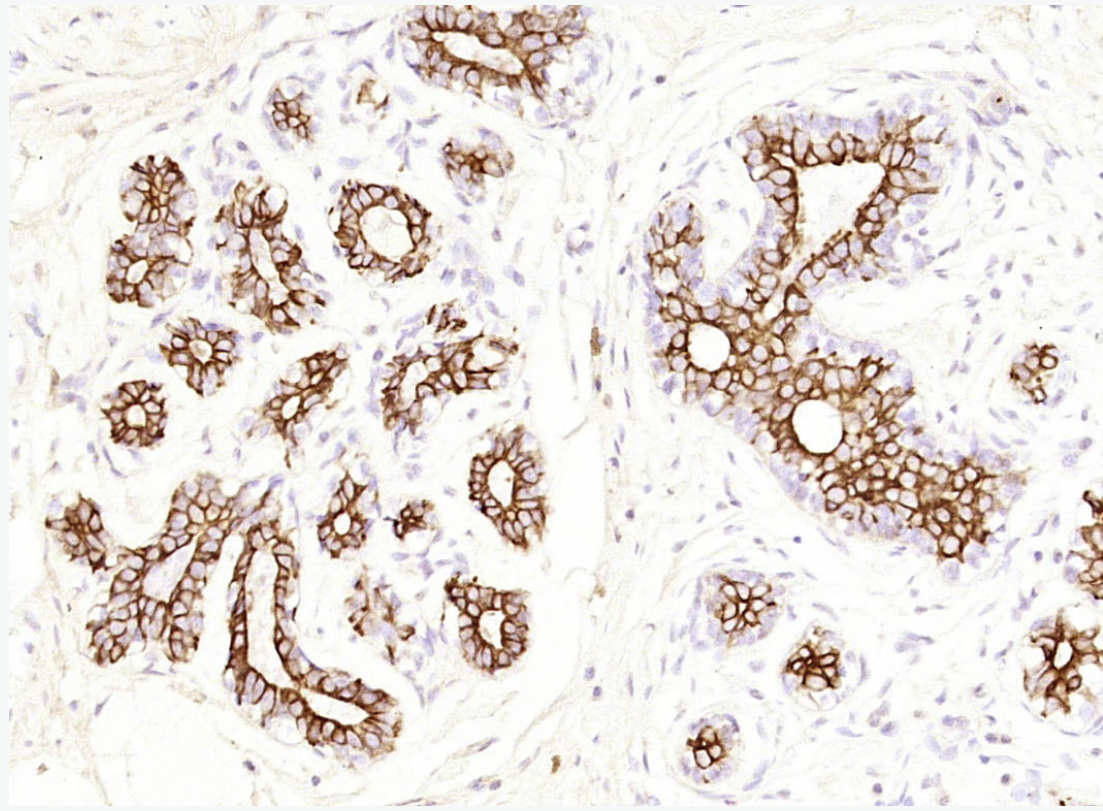
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 54 kDa

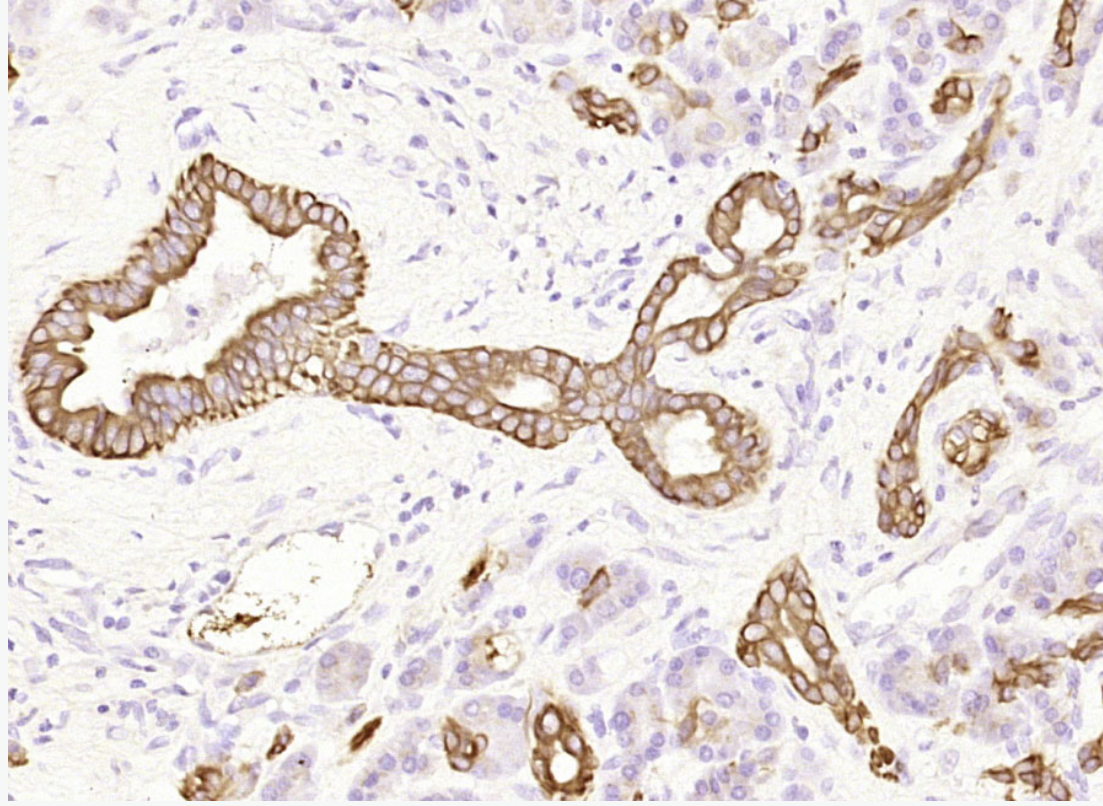
Observed band size: 60 kDa



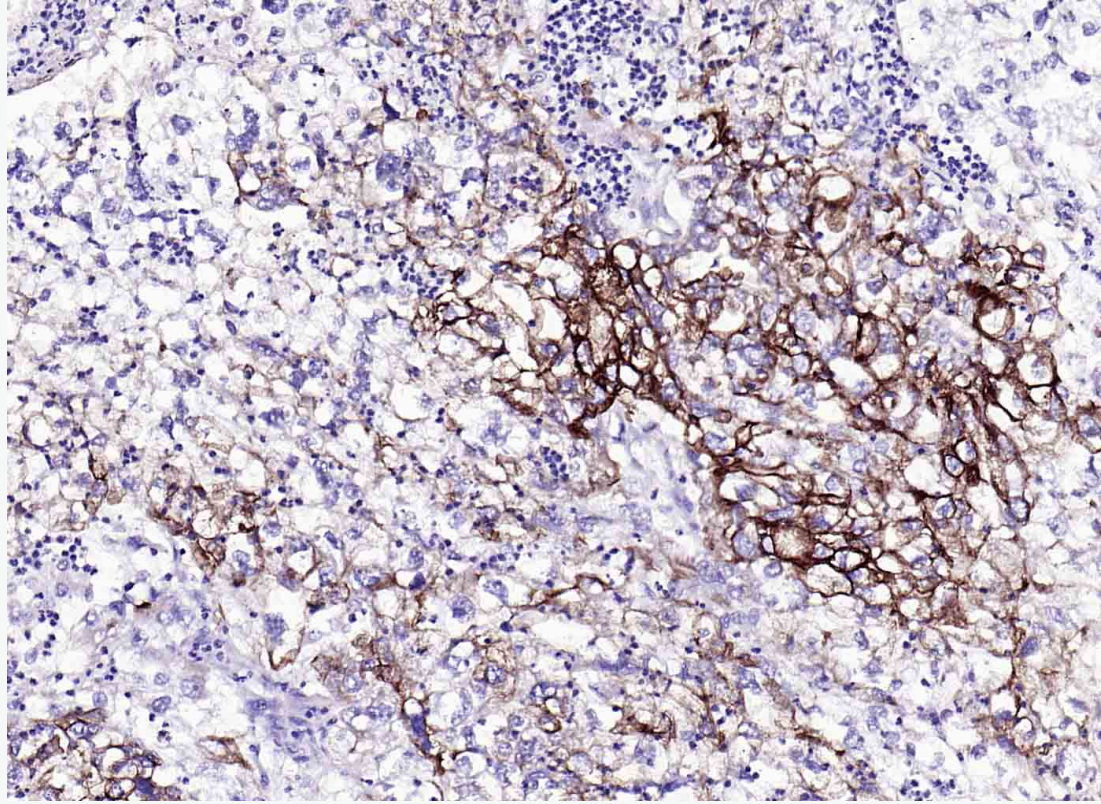
Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (1:100) Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by secondary antibody incubation according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



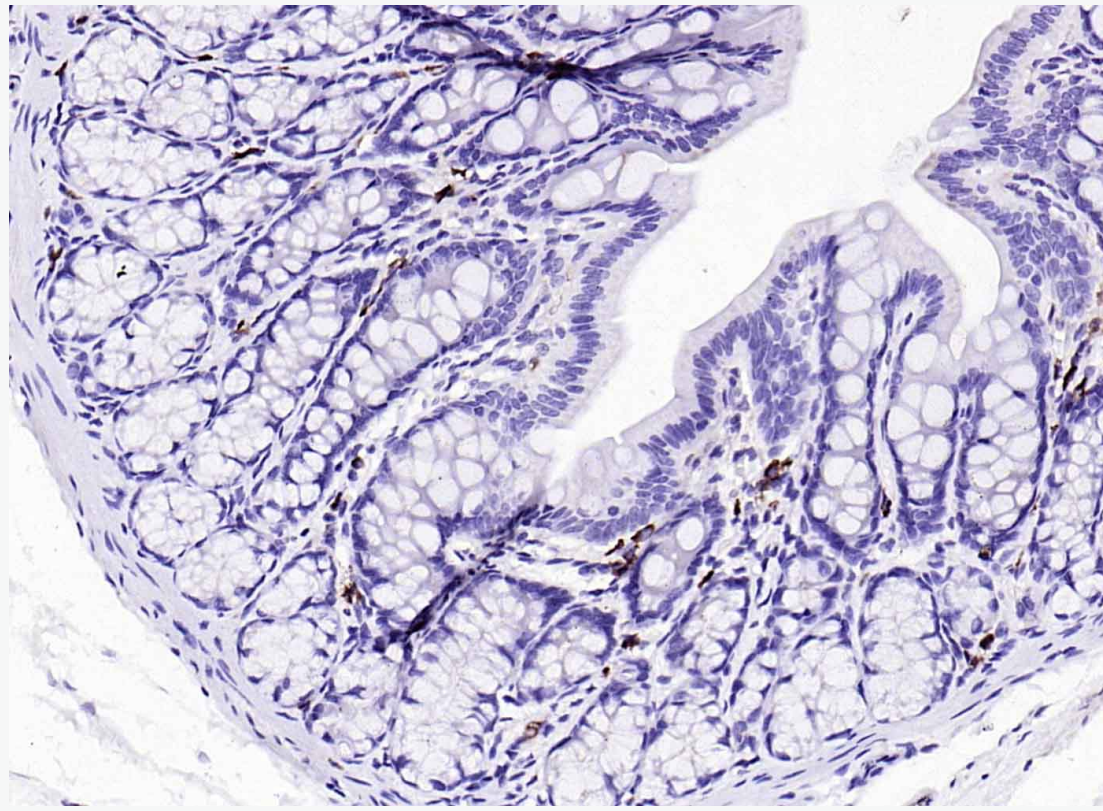
Paraformaldehyde-fixed, paraffin embedded (human breast); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



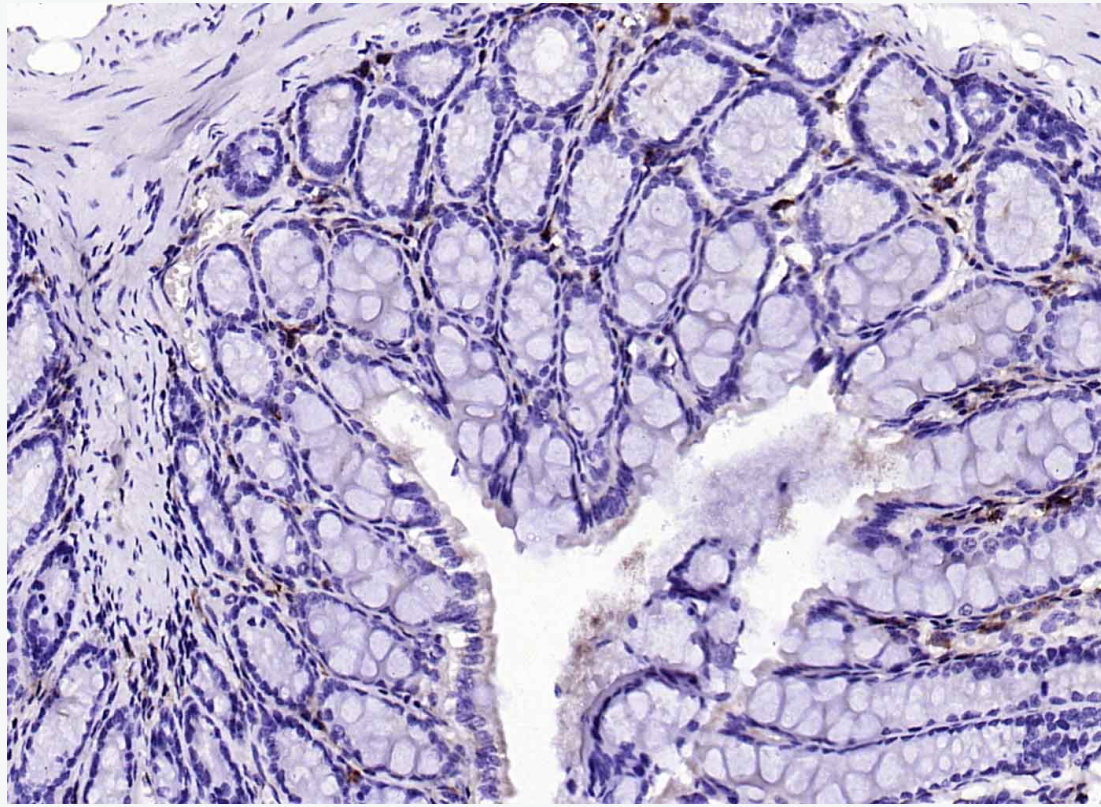
Paraformaldehyde-fixed, paraffin embedded (human pancreatic carcinoma); Antigen retrieval in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by DAB staining according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



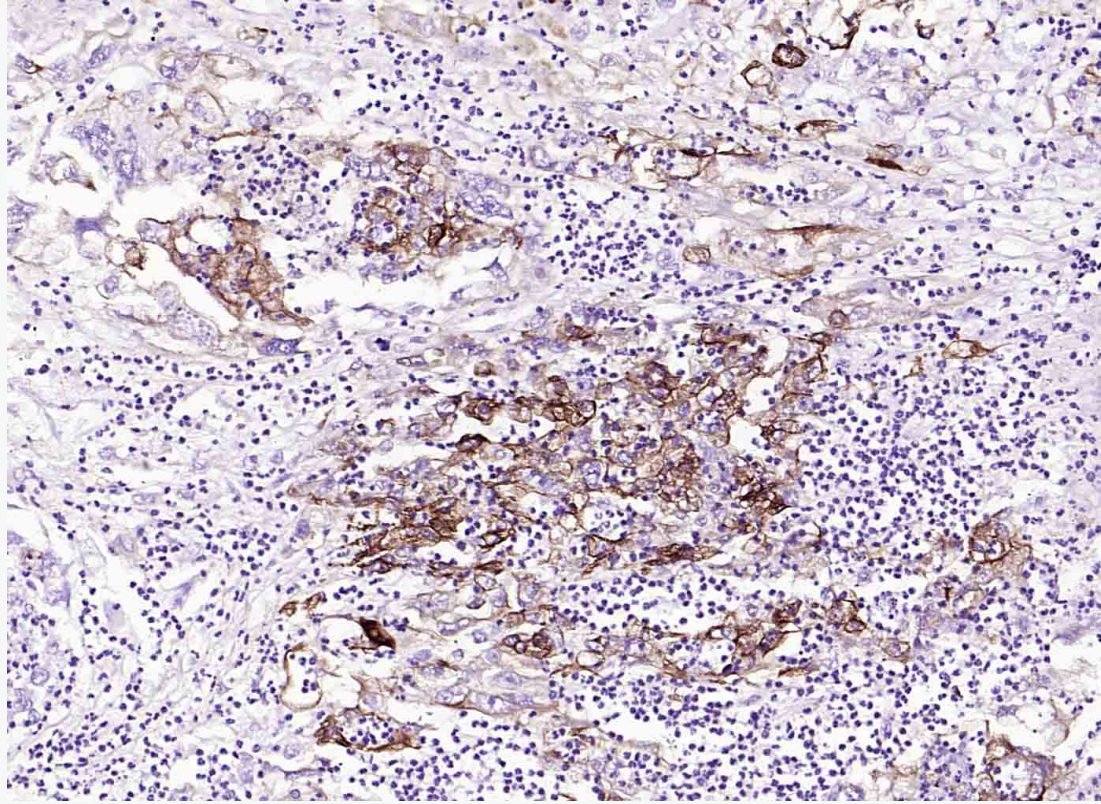
Paraformaldehyde-fixed, paraffin embedded (human Uterine Corpus Cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by DAB staining operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



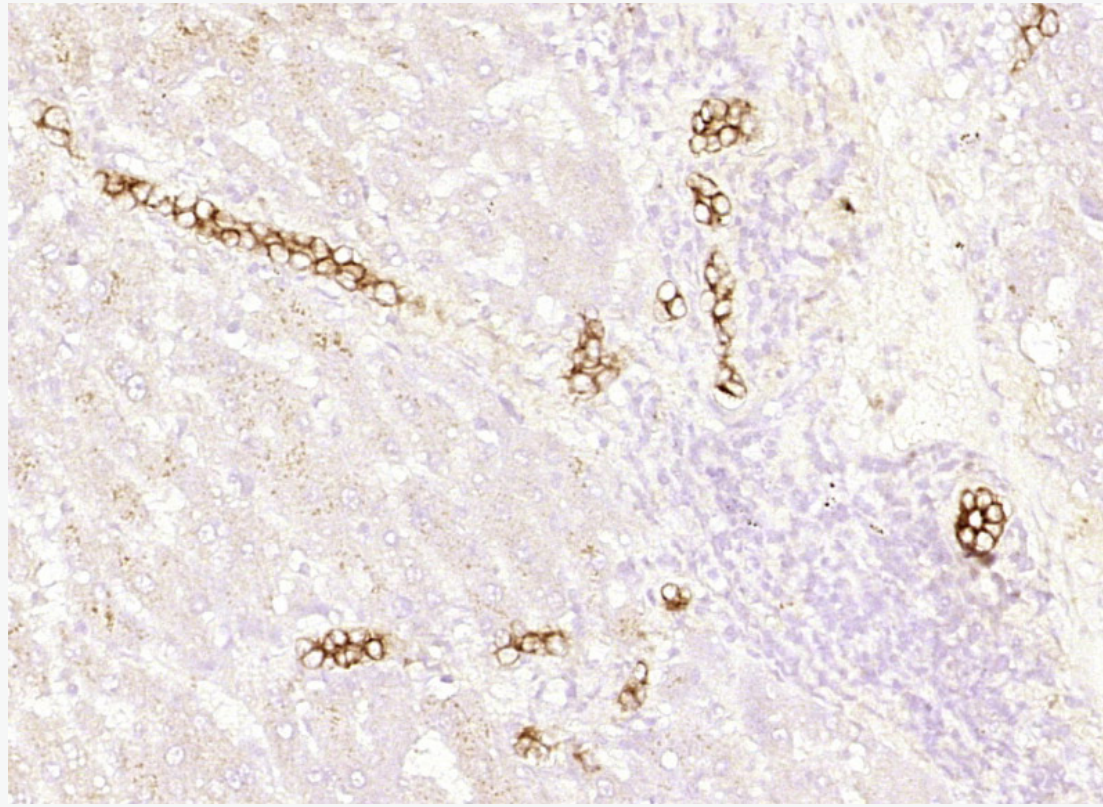
Paraformaldehyde-fixed, paraffin embedded (rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



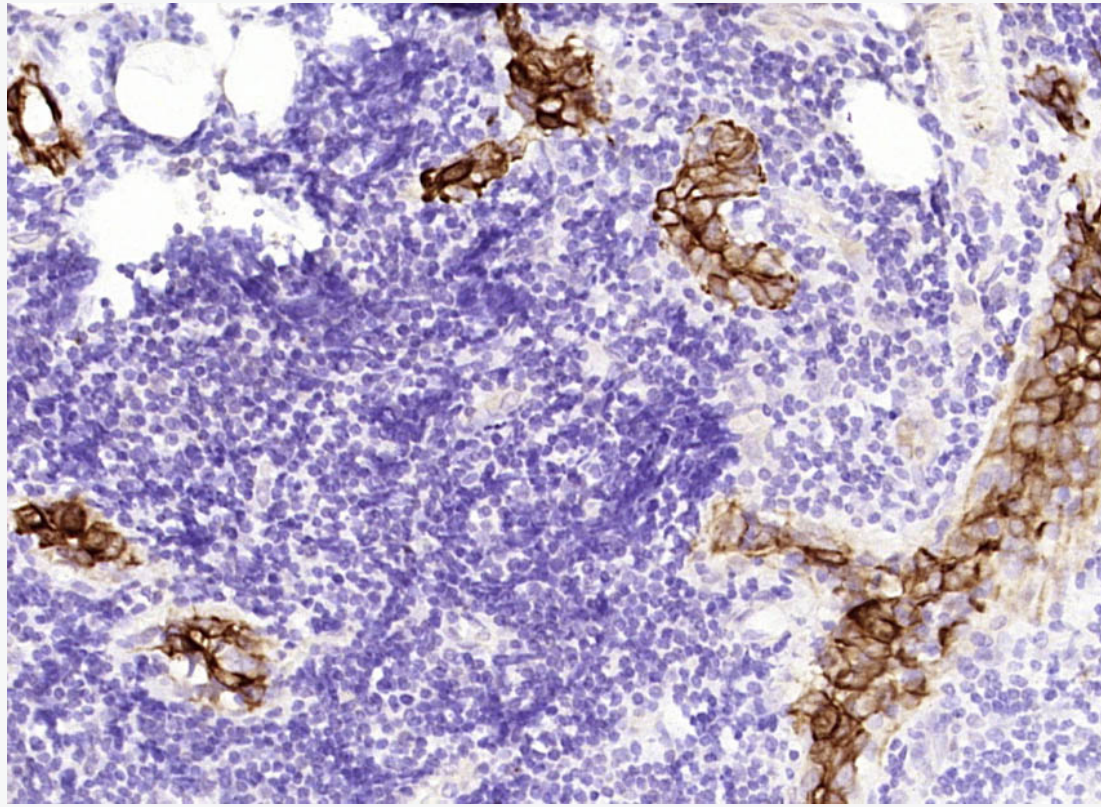
Paraformaldehyde-fixed, paraffin embedded (mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



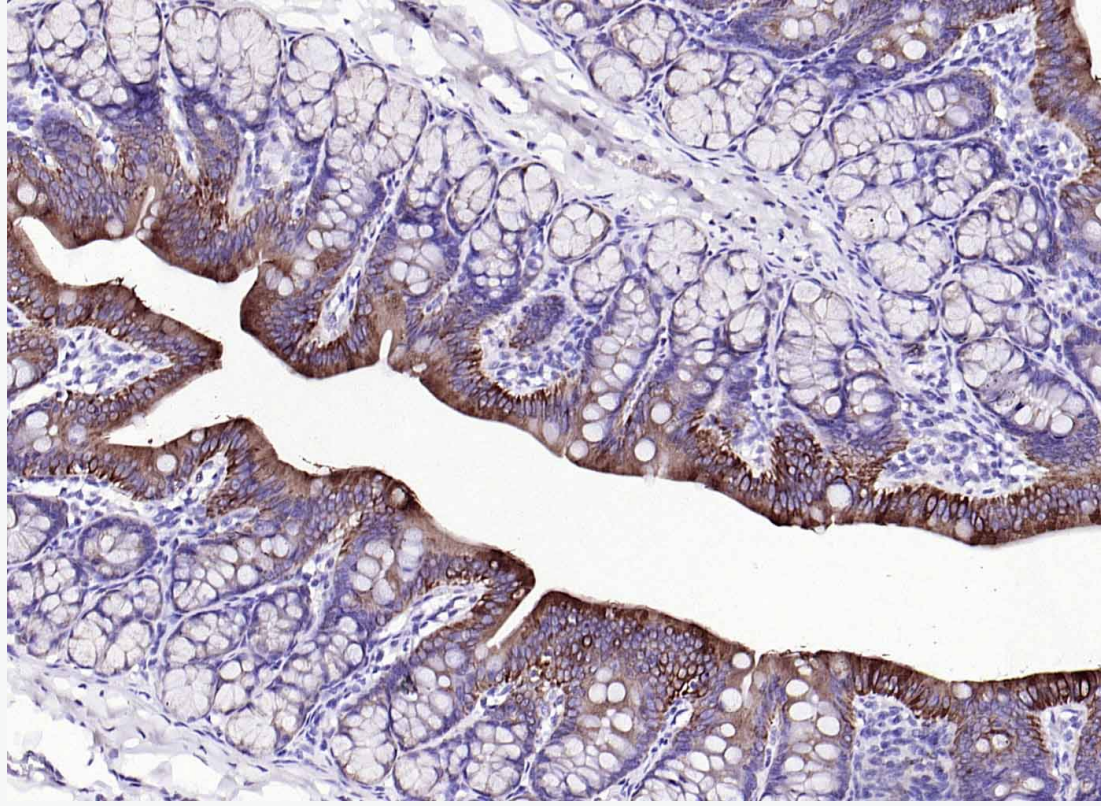
Paraformaldehyde-fixed, paraffin embedded (human Uterine Corpus Cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by DAB staining, operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



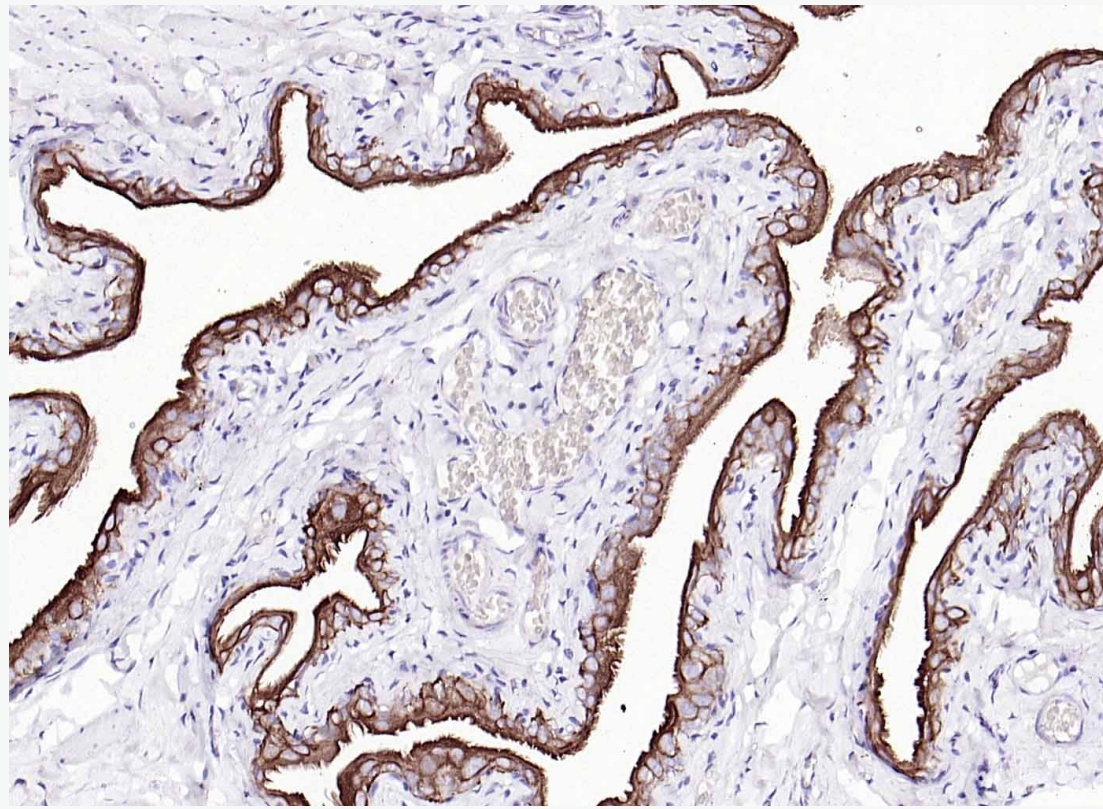
Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C) Polyclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by secondary antibody incubation according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



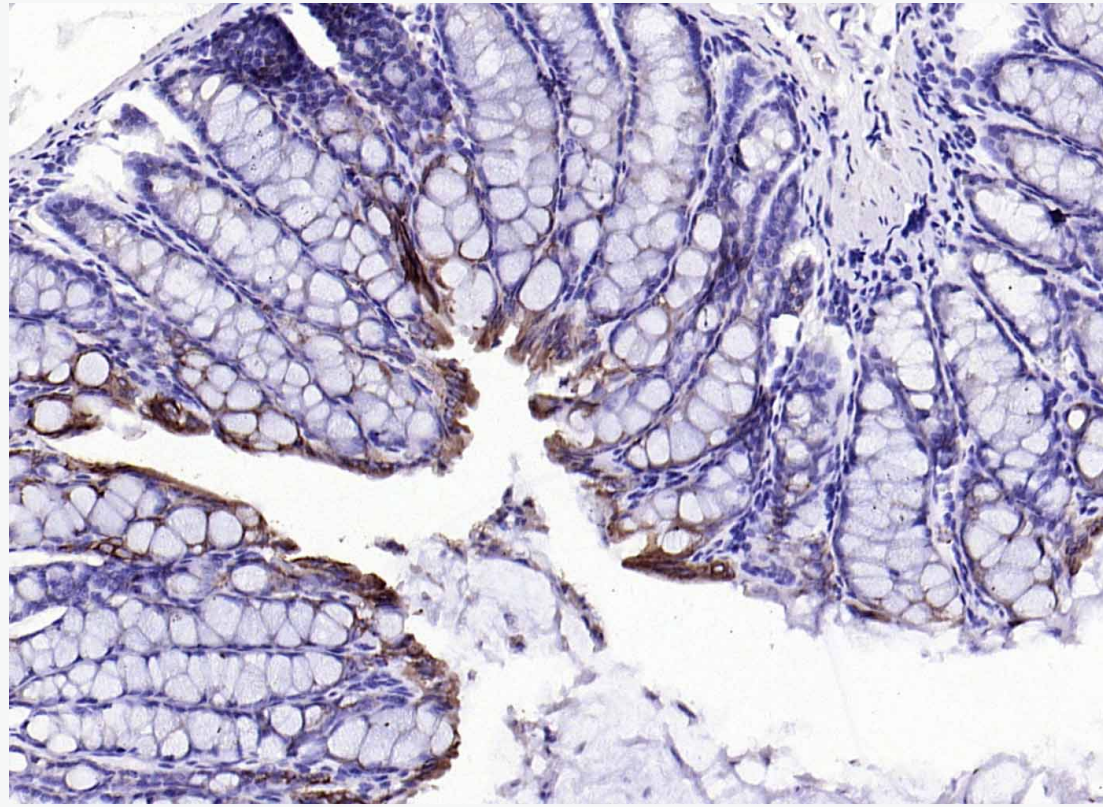
Paraformaldehyde-fixed, paraffin embedded (human esophagus); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



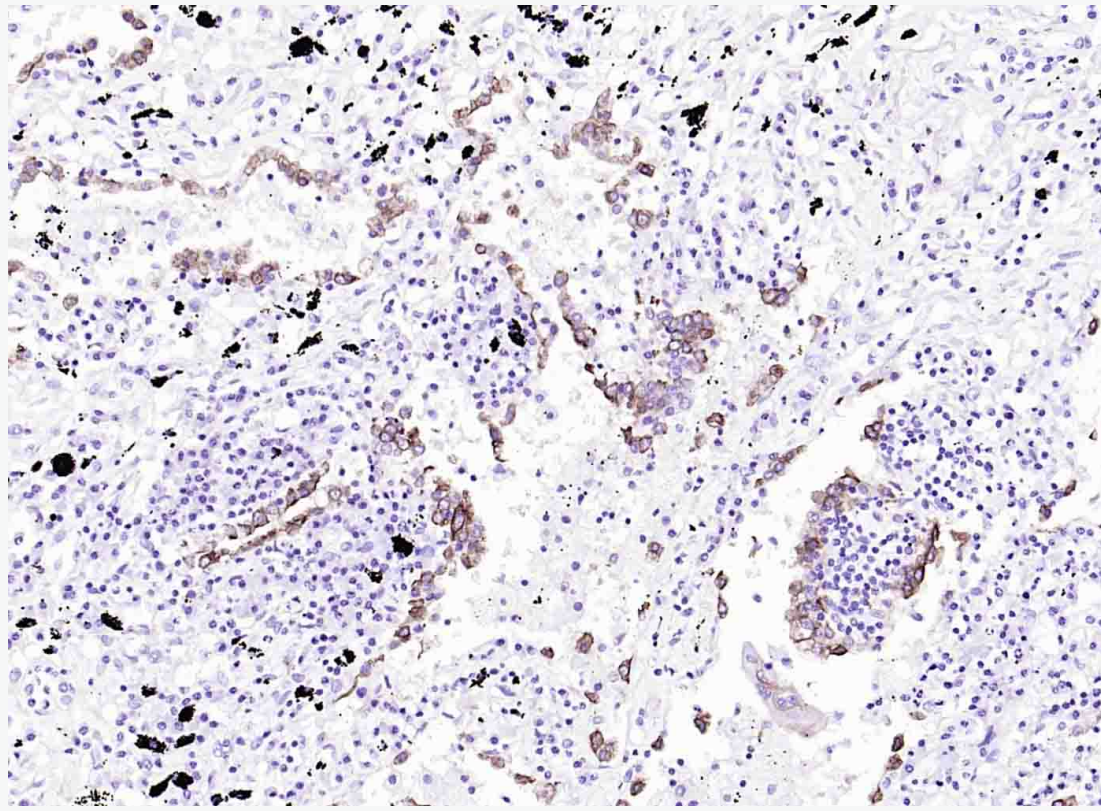
Paraformaldehyde-fixed, paraffin embedded (rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



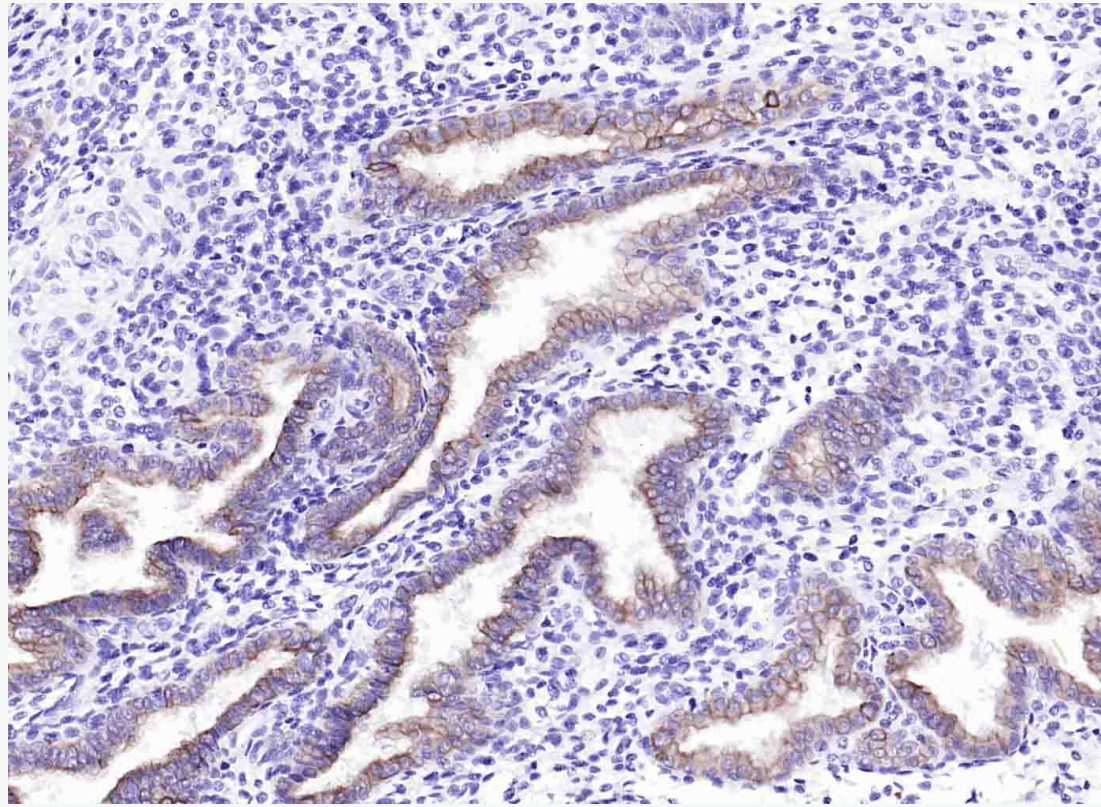
Paraformaldehyde-fixed, paraffin embedded (rat bladder); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



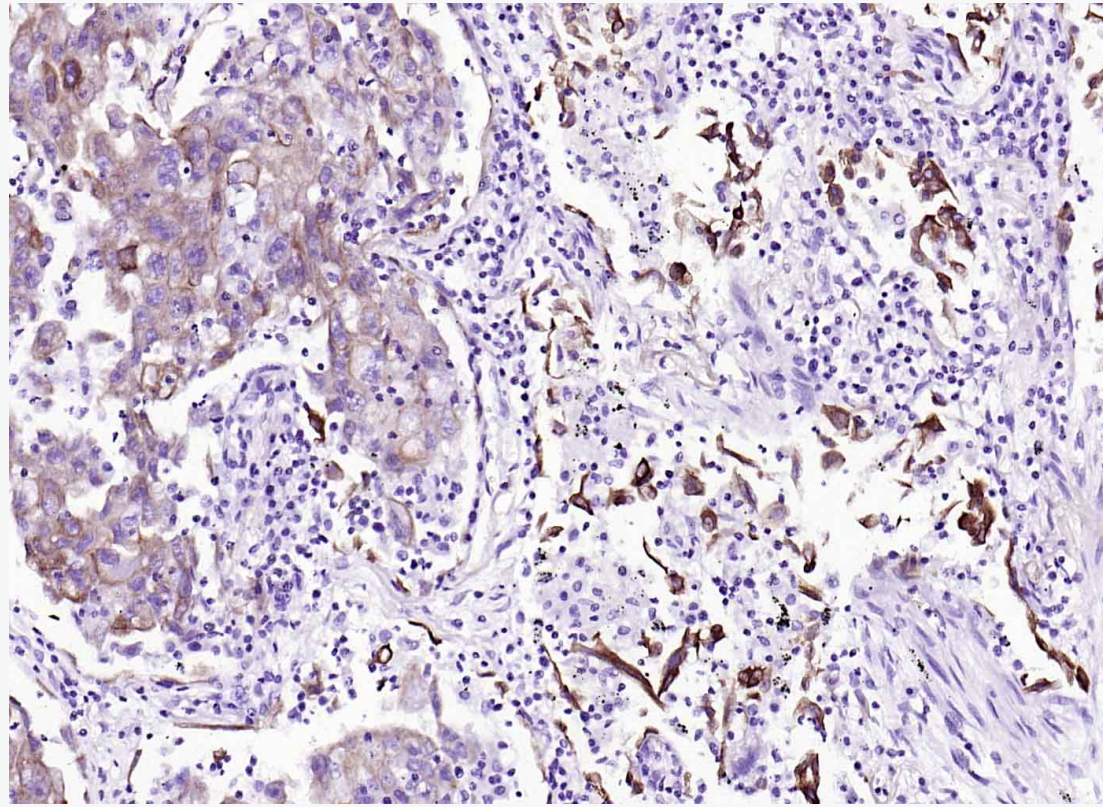
Paraformaldehyde-fixed, paraffin embedded (Mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse monoclonal antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



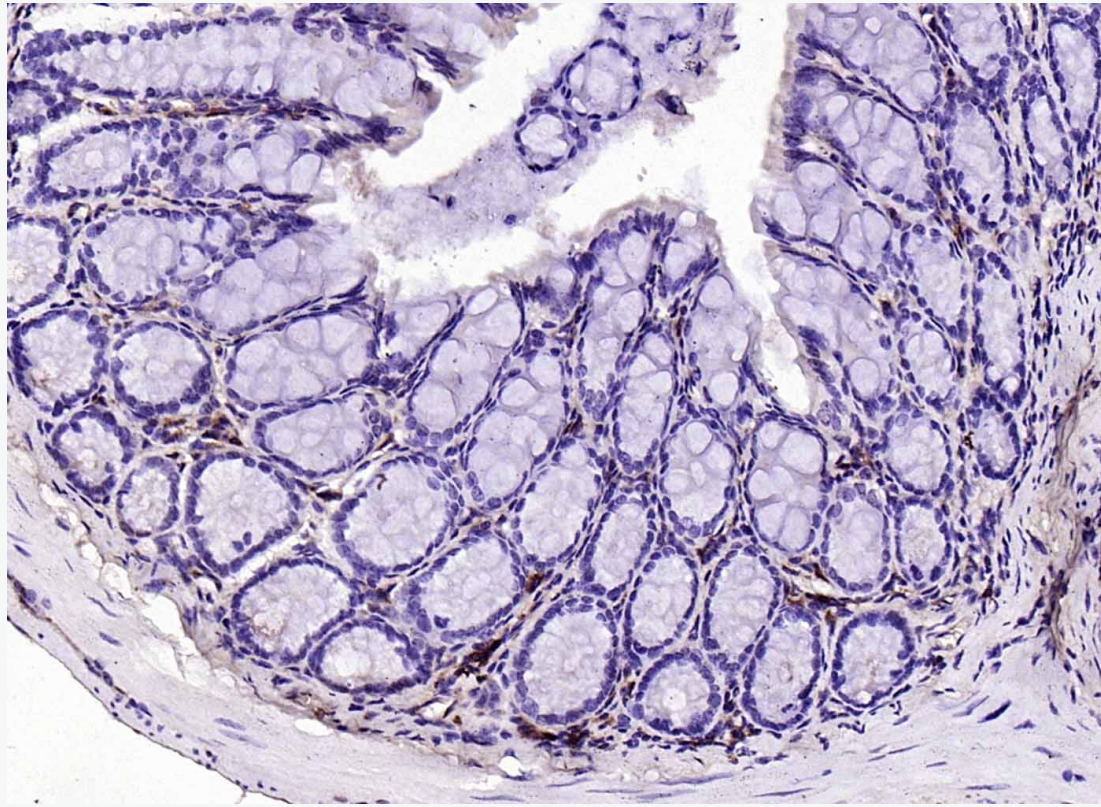
Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C) Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by secondary antibody incubation according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



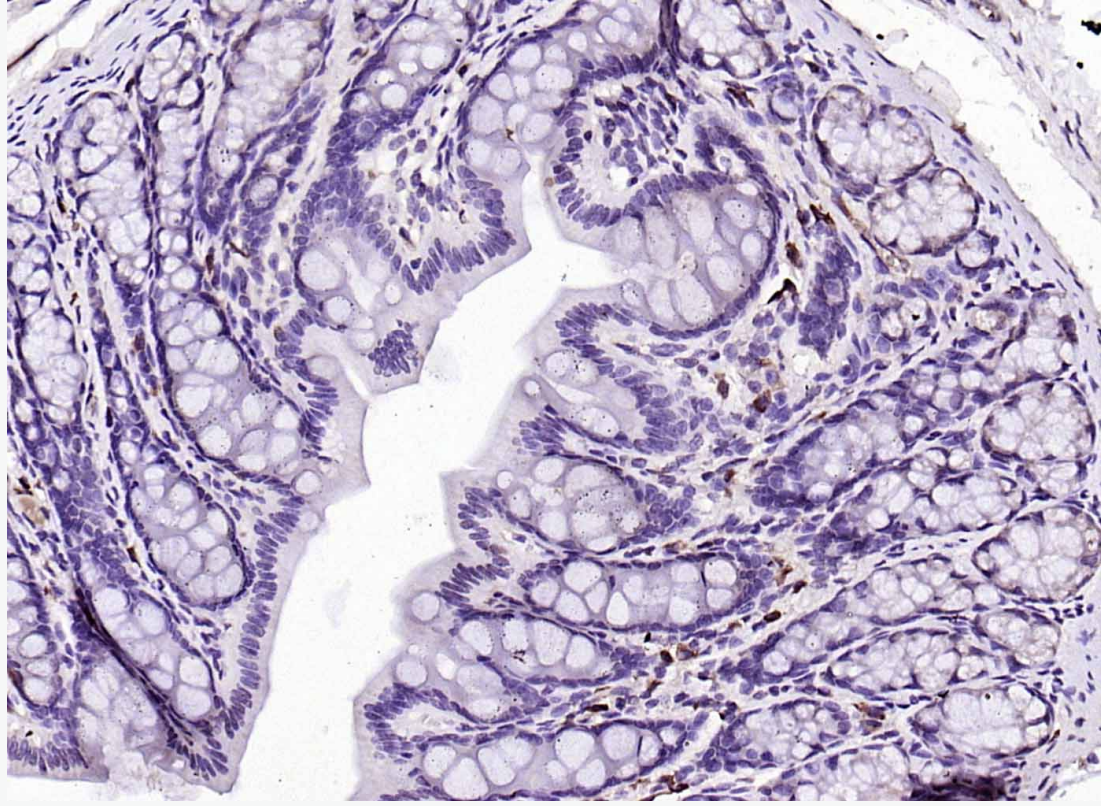
Paraformaldehyde-fixed, paraffin embedded (human uterus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



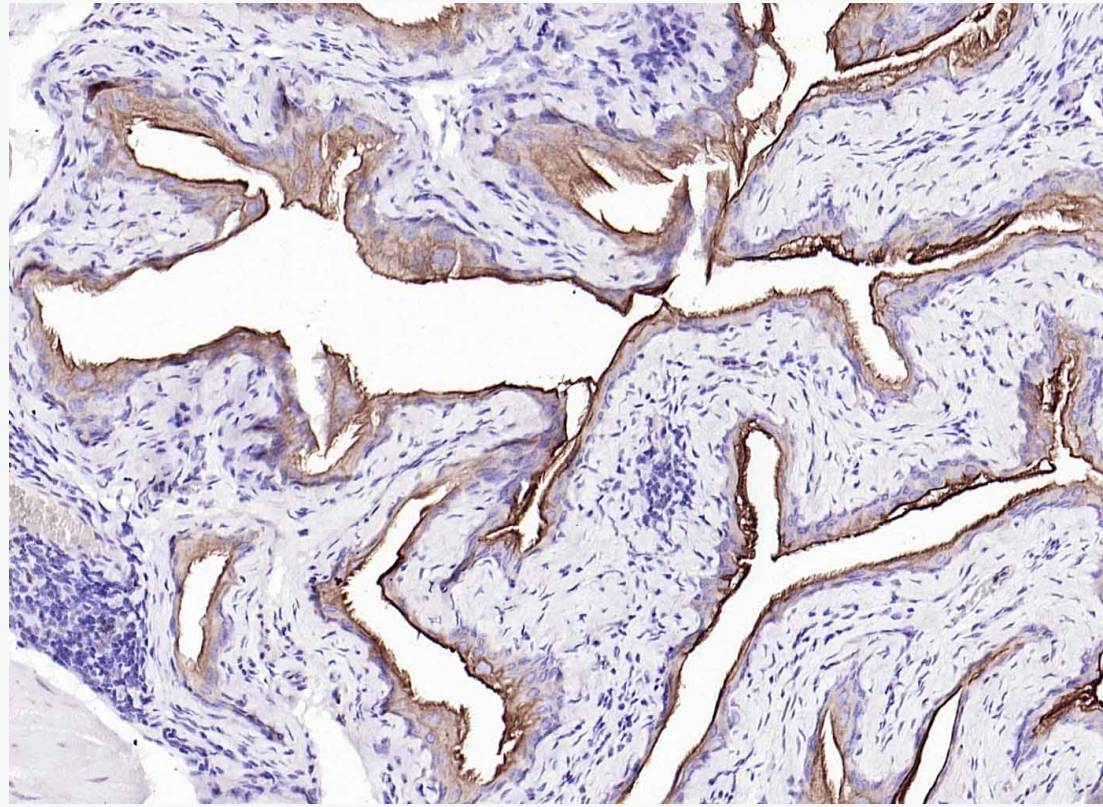
Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C) Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by secondary antibody incubation according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



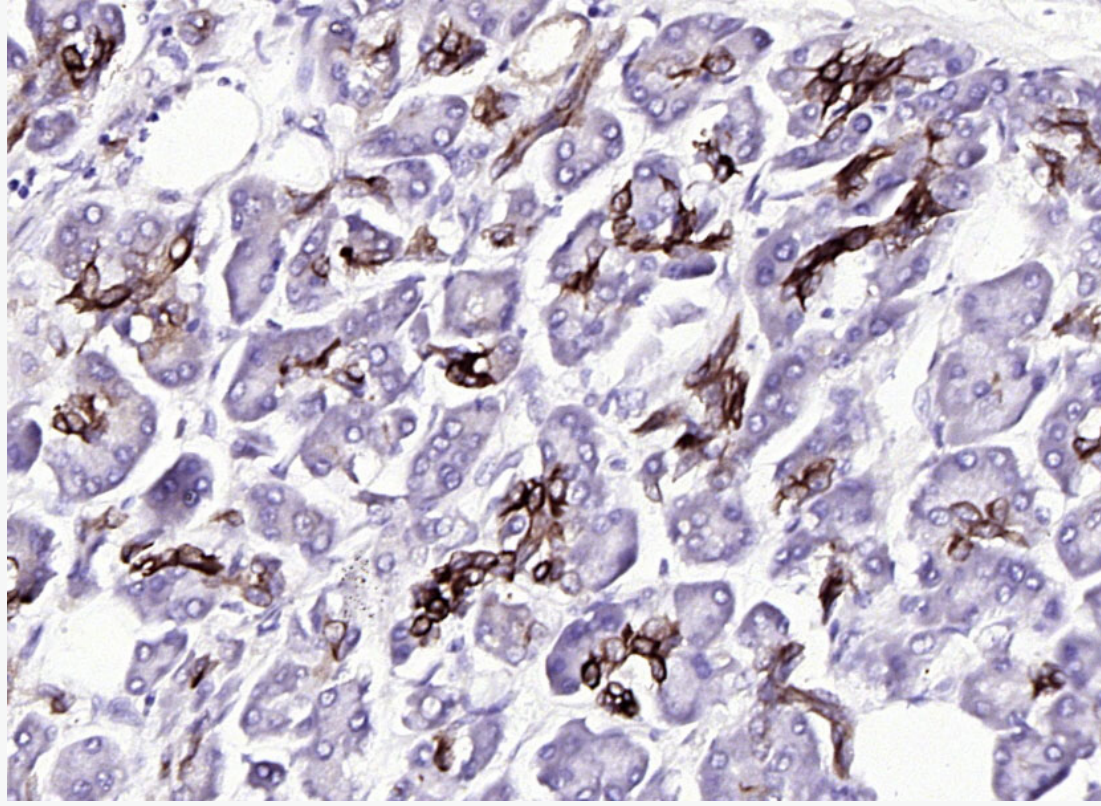
Paraformaldehyde-fixed, paraffin embedded (Mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse monoclonal antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



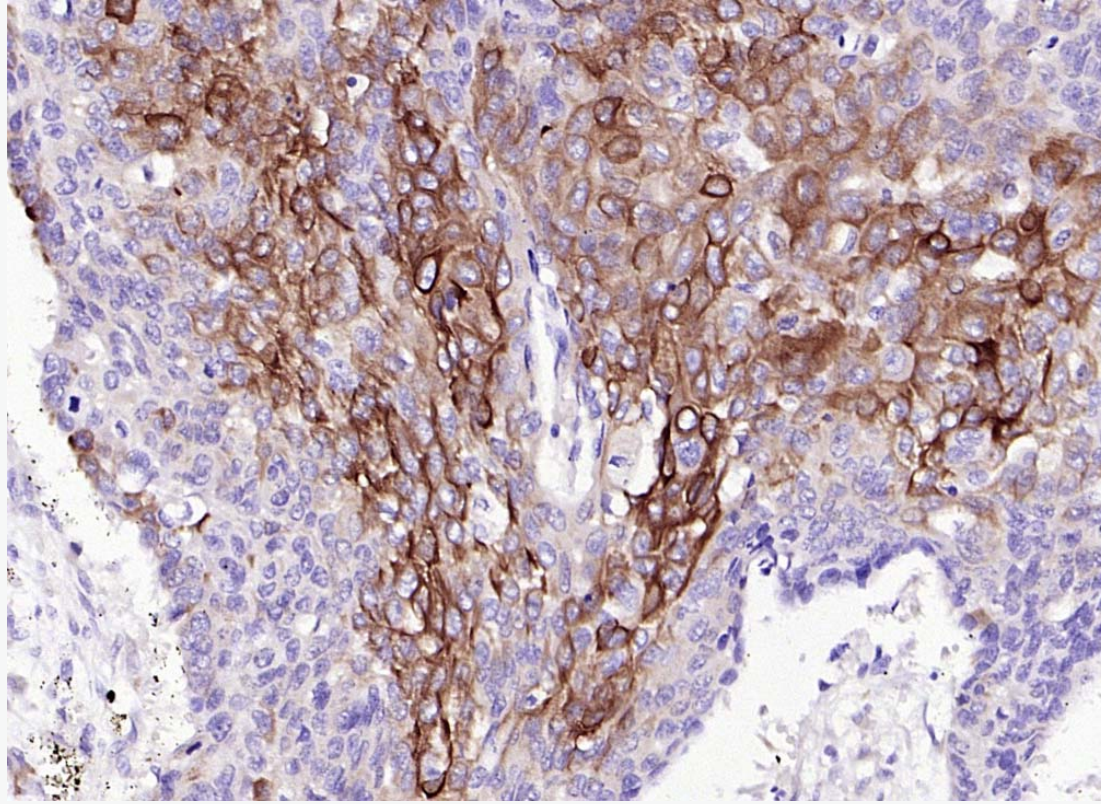
Paraformaldehyde-fixed, paraffin embedded (RAT colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



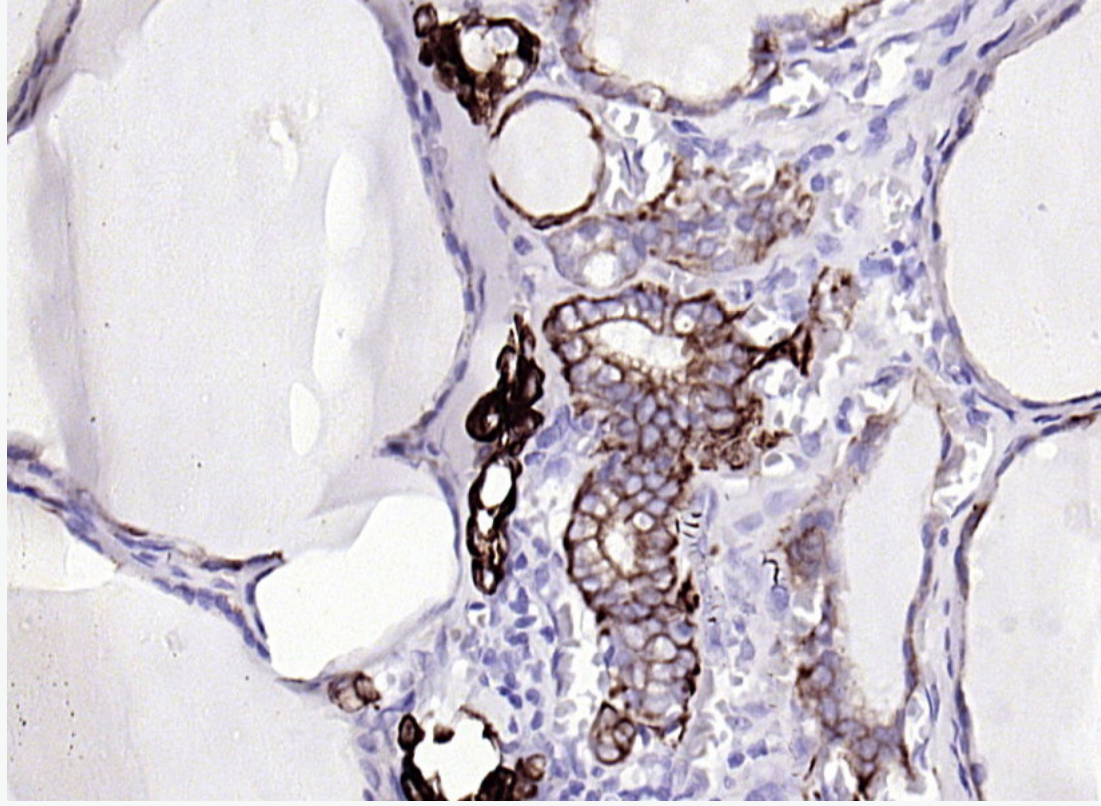
Paraformaldehyde-fixed, paraffin embedded (Mouse bladder); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



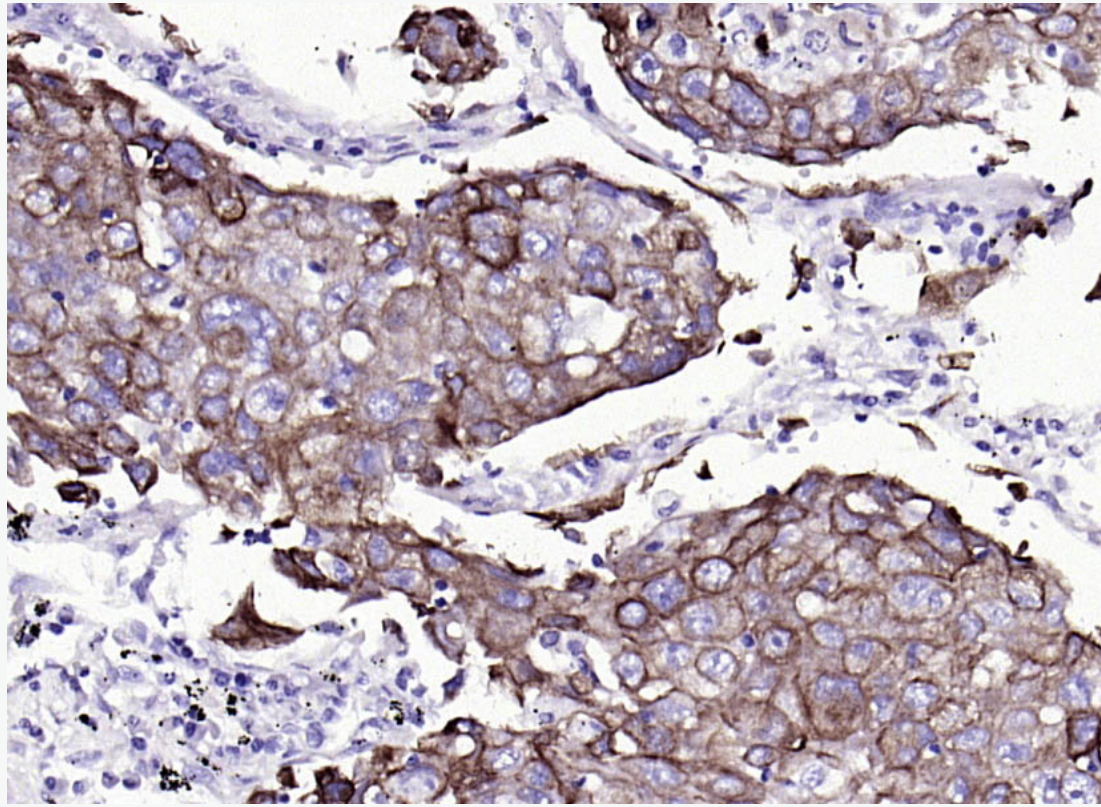
Paraformaldehyde-fixed, paraffin embedded (human pancreatic cancer); Antigen retrieval by 10 minutes in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (1:100) Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by secondary antibody incubation according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



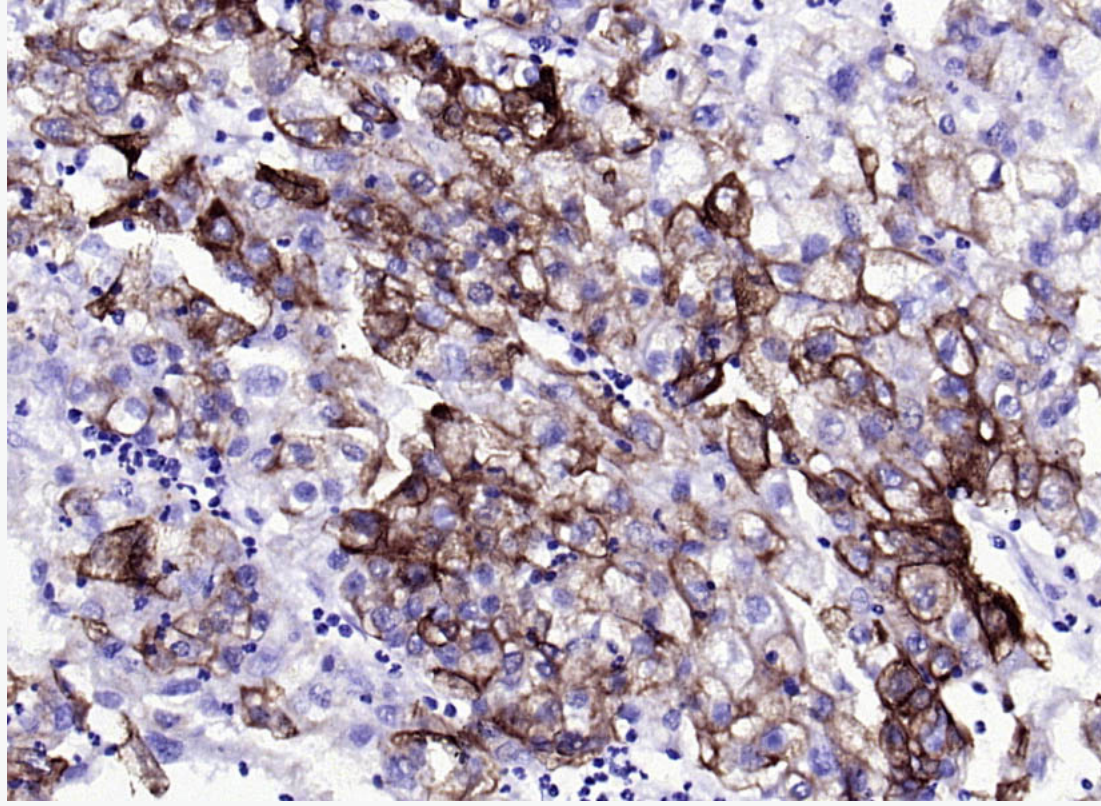
Paraformaldehyde-fixed, paraffin embedded (Human esophageal); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by operating according to the SP Kit(Mouse)(sp-0024) instructions and DAB staining.



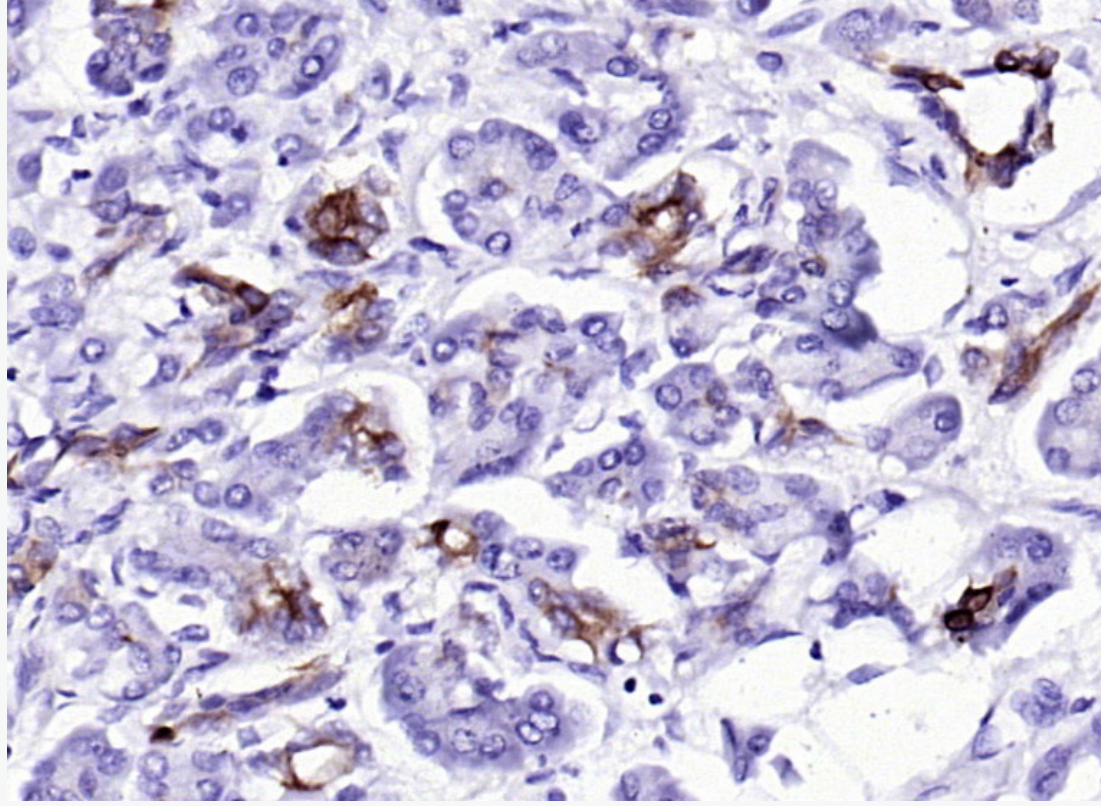
Paraformaldehyde-fixed, paraffin embedded (human thyroid gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C) Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by DAB staining according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



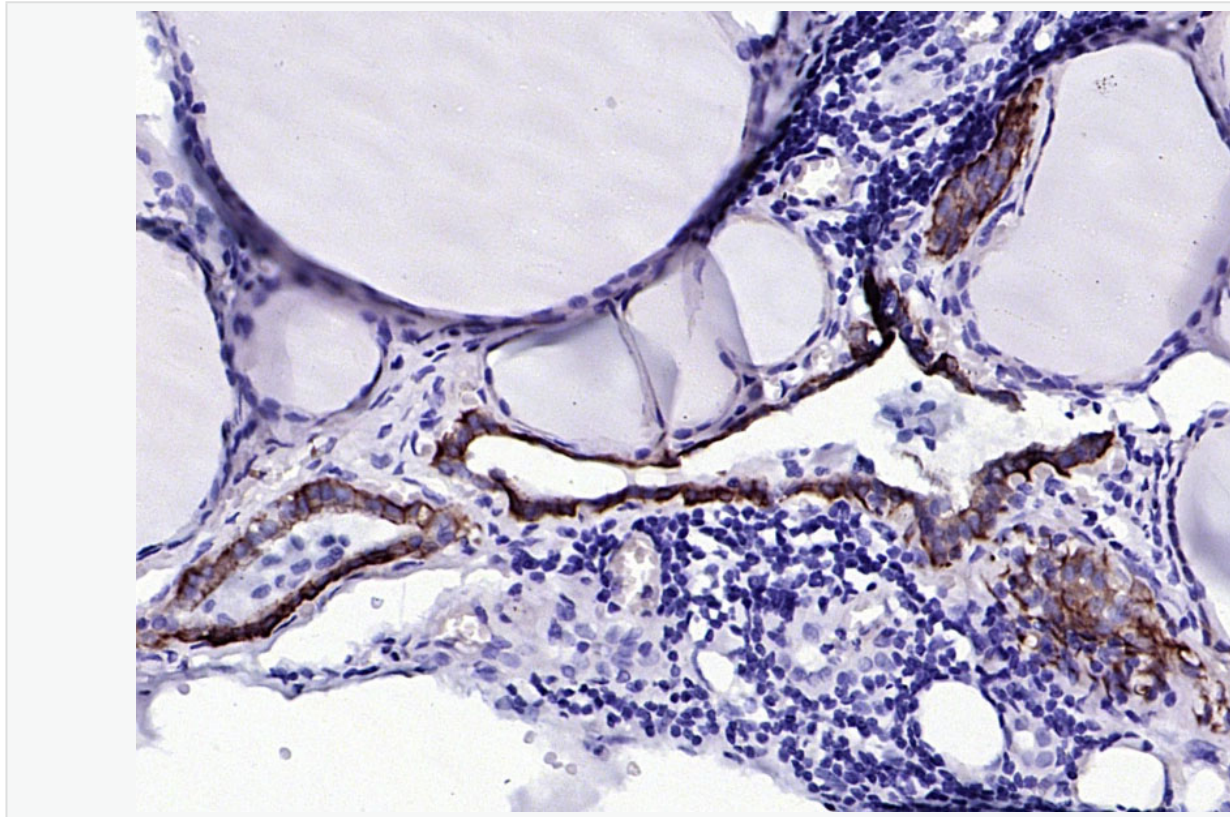
Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C) Monoclonal Antibody, Unconjugated (SLM-33060M) at 1:200 overnight at 4°C, followed by secondary antibody incubation according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



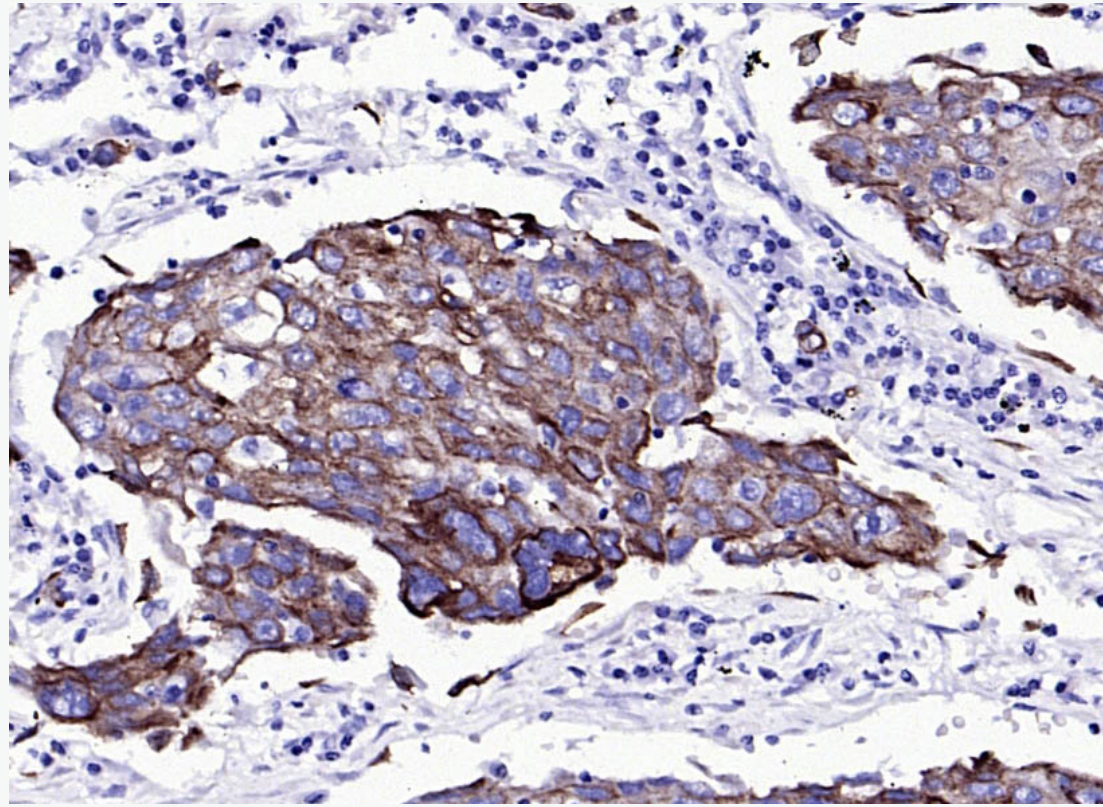
Paraformaldehyde-fixed, paraffin embedded (human endometrial carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Monoclonal Antibody, Unconjugated (ascites of SLM-33060M 10E3) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



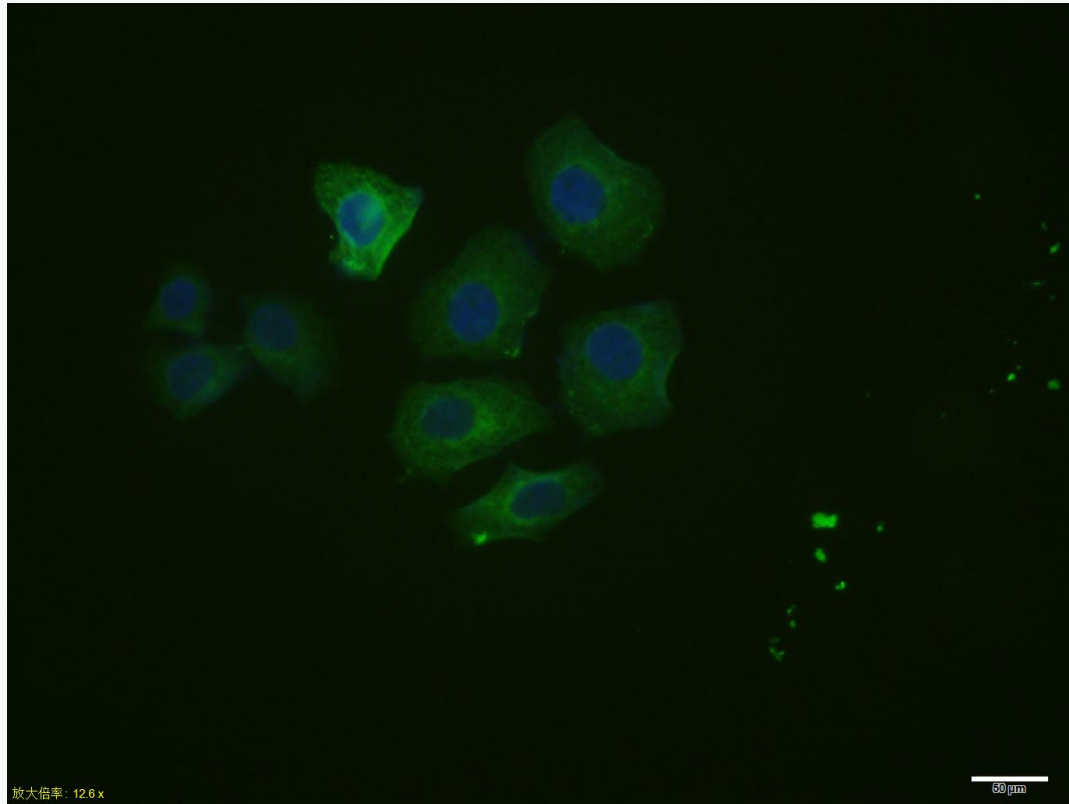
Paraformaldehyde-fixed, paraffin embedded (human pancreatic carcinoma); Antigen retrieval in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with Monoclonal Antibody, Unconjugated (ascites of SLM-33060M 10E3) at 1:2000 overnight at 4°C followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



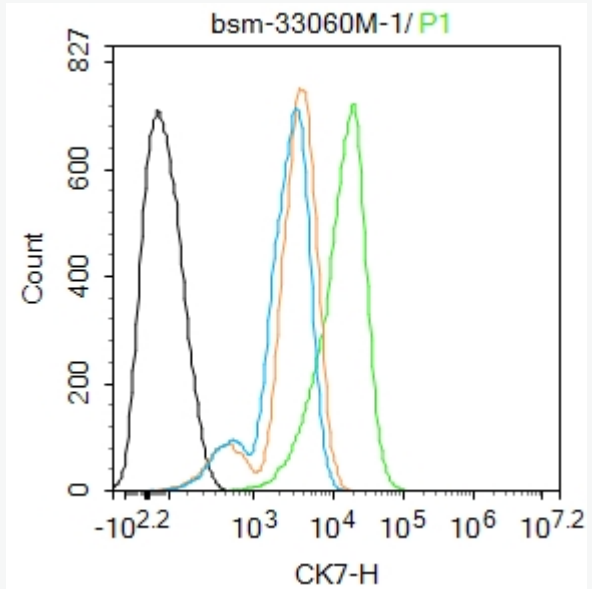
Paraformaldehyde-fixed, paraffin embedded (human thyroid gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C) Monoclonal Antibody, Unconjugated (ascites of SLM-33060M 10E3) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human lung cancer); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK7) Mouse Monoclonal Antibody, Unconjugated (ascites of SLM-33060M 10E3) at 1:2000 overnight at 4°C, followed by secondary antibody incubation and DAB staining, operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Block (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (CK7) monoclonal Unconjugated (SLM-33060M) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei



Blank control:Hela.

Primary Antibody (green line): Mouse Anti-CK7 antibody (SLM-33060M)

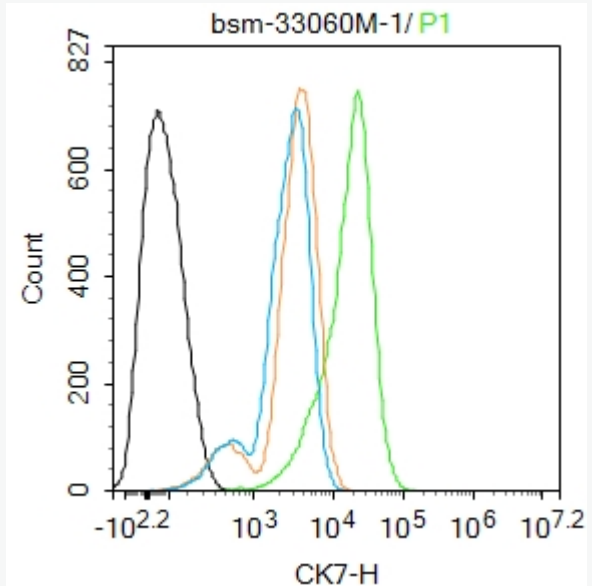
Dilution: 1ug/Test;

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% 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.



Blank control:Hela.

Primary Antibody (green line): Mouse Anti-CK7 antibody (SLM-33060M)

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% 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.