

Mouse Anti-CK18 antibody

SLM-33103M

Product Name CK18

Chinese Name 细胞角蛋白 18 单克隆抗体

Alias K1C18_HUMAN; Keratin, type I cytoskeletal 18; KRT18; CYK18; Cell proliferation-inducing Cytokeratin-18 (CK-18); Keratin-18 (K18); PIG46; Keratin 18;

Research Area Tumour Cell biology immunology Signal transduction

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 10H2

React Species Human, Mouse, Rat,
WB=1:1000-2000,IHC-P=1:200-1000,IHC-F=1:200-1000,ICC/IF=1:100-500,IF=1:200-1000,FI
(Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 48kDa

Cellular localization cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen Recombinant human CK18 protein

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](#)

KRT18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner, is perhaps the most commonly found members of the intermediate filament gene family. They are expressed in most epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcripts encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Function:

When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated proteins to the plasma membrane. Involved in the uptake of thrombin-antithrombin complexes by hepatic cells. Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.

Post-translational modifications:

Phosphorylation increases by IL-6.

Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-231 by caspase-3, caspase-6 or caspase-7.

O-glycosylated at multiple sites; glycans consist of single N-acetylglucosamine residue.

Similarity:

Belongs to the intermediate filament family.

SWISS:

P05783

Gene ID:

3875

Database links:

[Entrez Gene: 506480](#) Cow

[Entrez Gene: 3875](#) Human

[Entrez Gene: 16668](#) Mouse

[Entrez Gene: 294853](#)

[SwissProt: P05783](#) Human

[SwissProt: P05784](#) Mouse

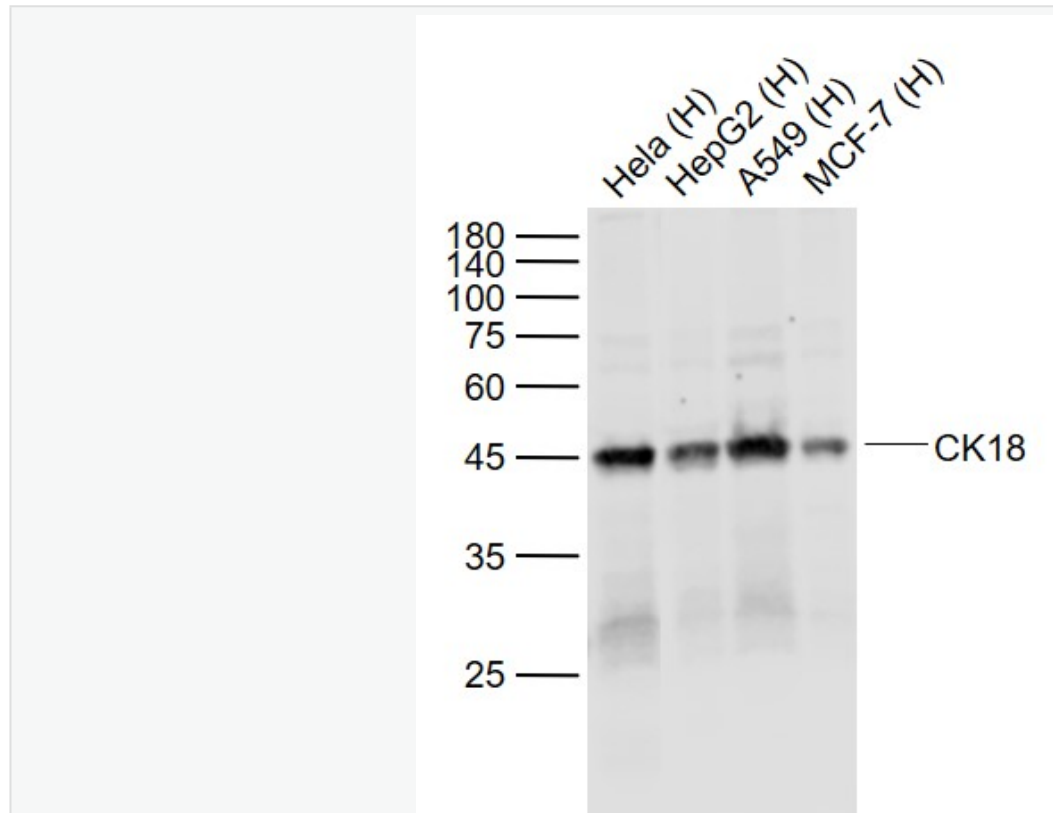
[SwissProt: Q5BJY9](#) Rat

**Product
Detail**

结构蛋白 (Structural Proteins)

常用于 Tumour 细胞的分化、增殖及转移方面的研究。

**Product
Picture**



Sample:

Lane 1: HeLa (Human) cell Lysate at 40 ug

Lane 2: HepG2 (Human) cell Lysate at 40 ug

Lane 3: A549 (Human) cell Lysate at 40 ug

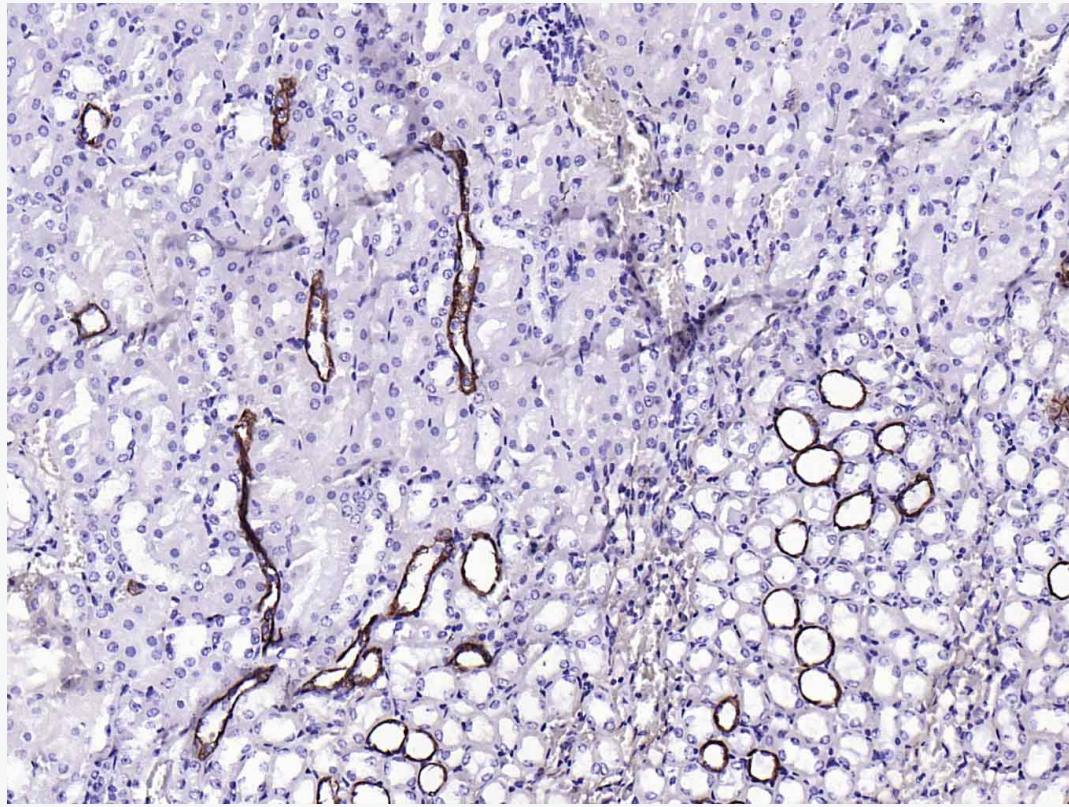
Lane 4: MCF-7 (Human) cell Lysate at 40 ug

Primary: Anti-CK18 (SLM-33103M) at 1/1000 dilution

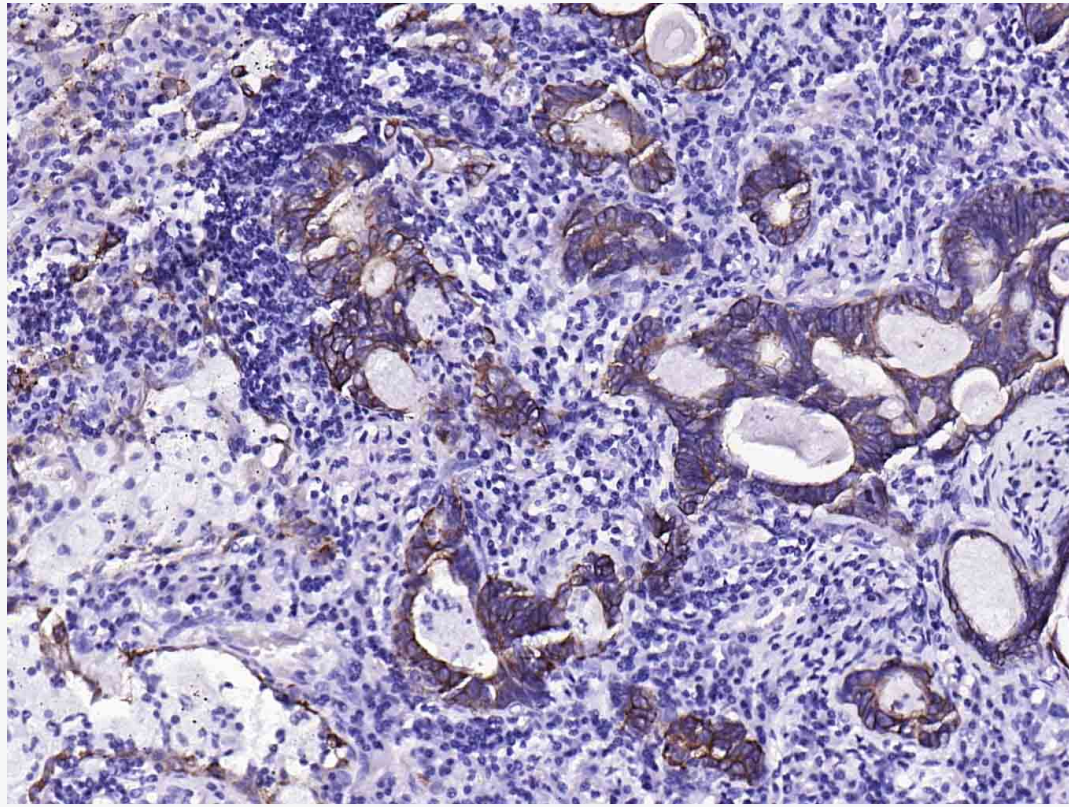
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 48 kD

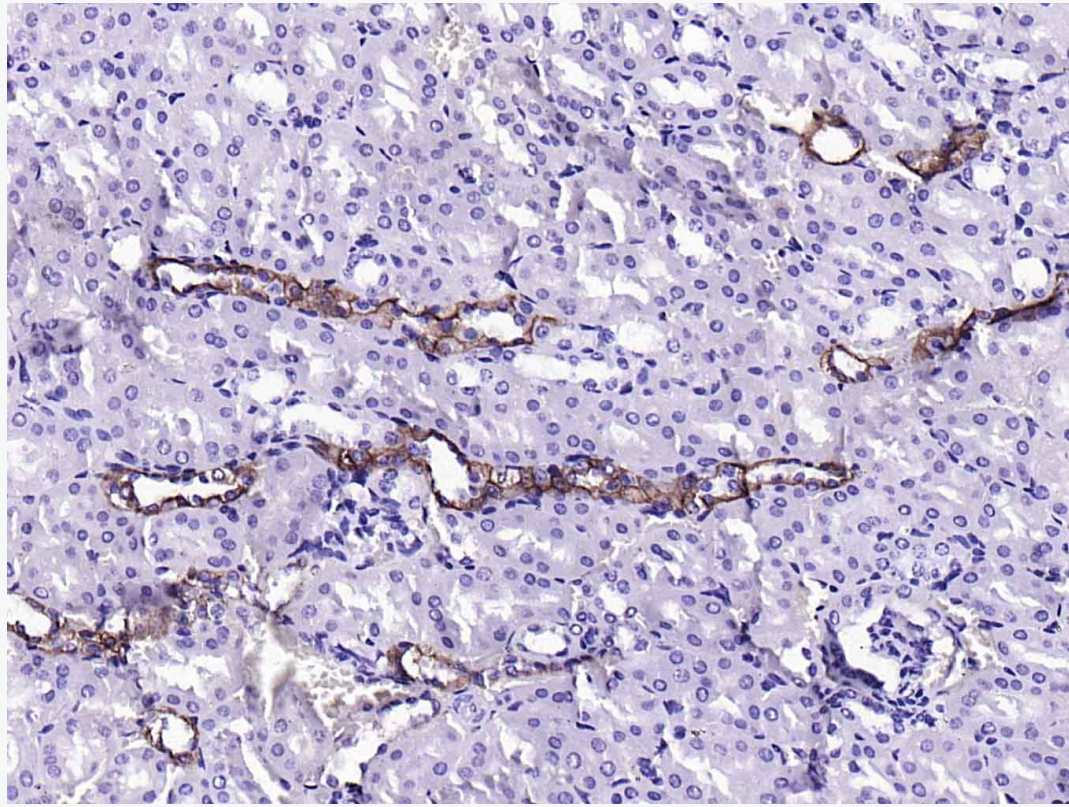
Observed band size: 45 kD



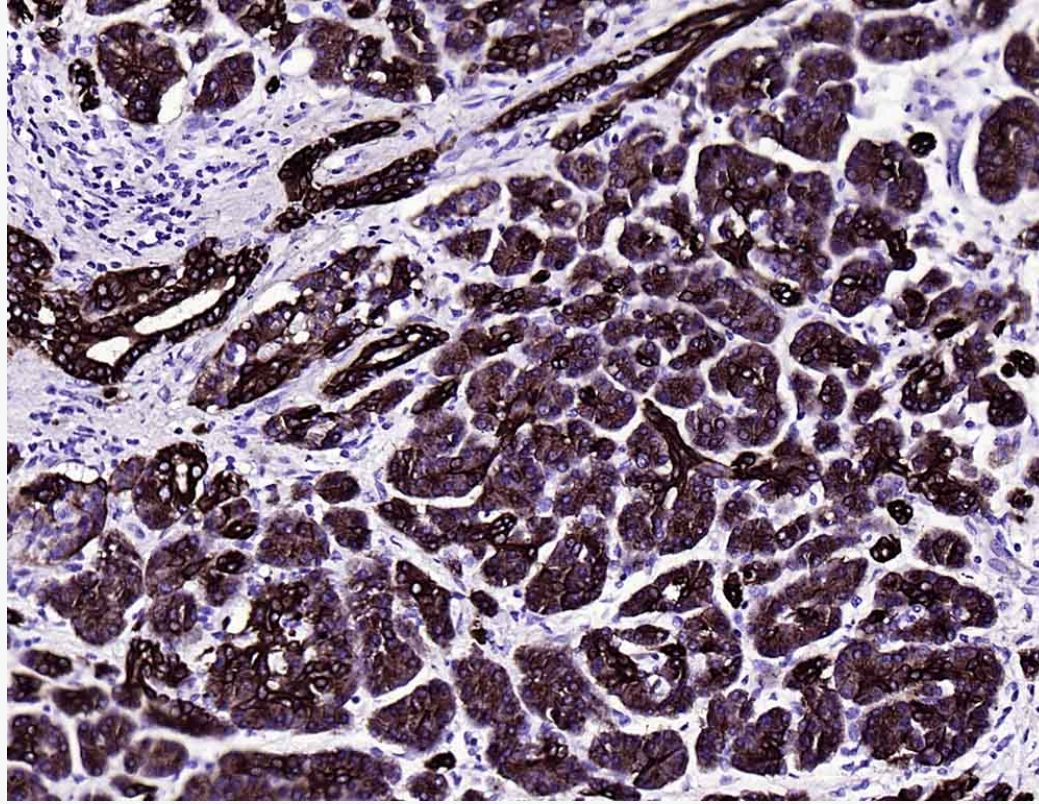
Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in s
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buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK18) Monoclonal
Unconjugated (SLM-33103M) at 1:200 overnight at 4°C, followed by operating according to
Kit(Mouse)(sp-0024) instructions and DAB staining.



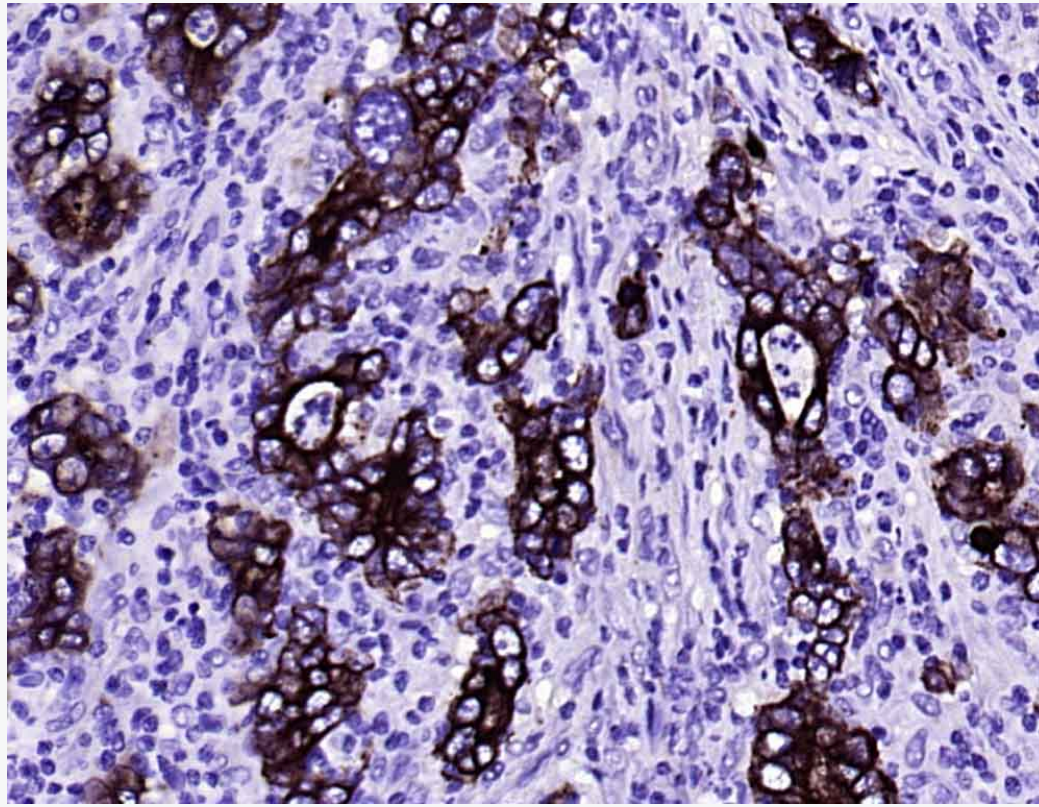
Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 30min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK18) Mouse Monoclonal Antibody, Unconjugated (SLM-33103M) at 1:200 overnight at 4°C, followed by operating according to the DAB Kit(Mouse)(sp-0024) instructions and DAB staining.



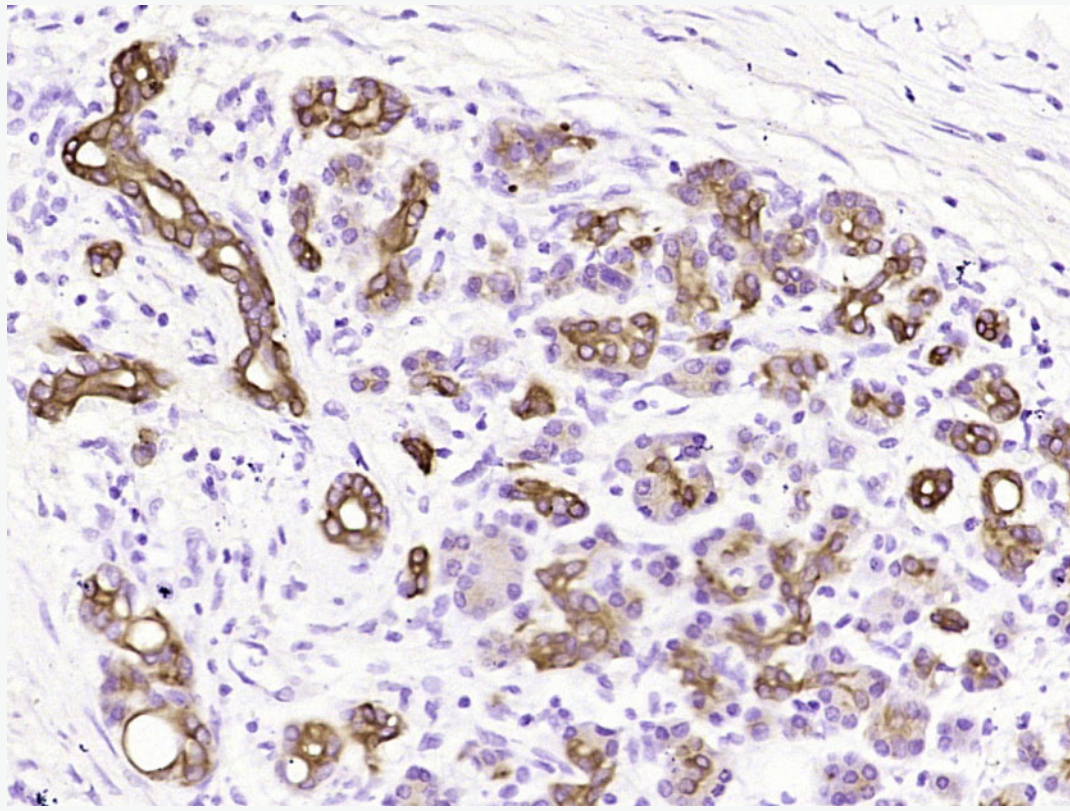
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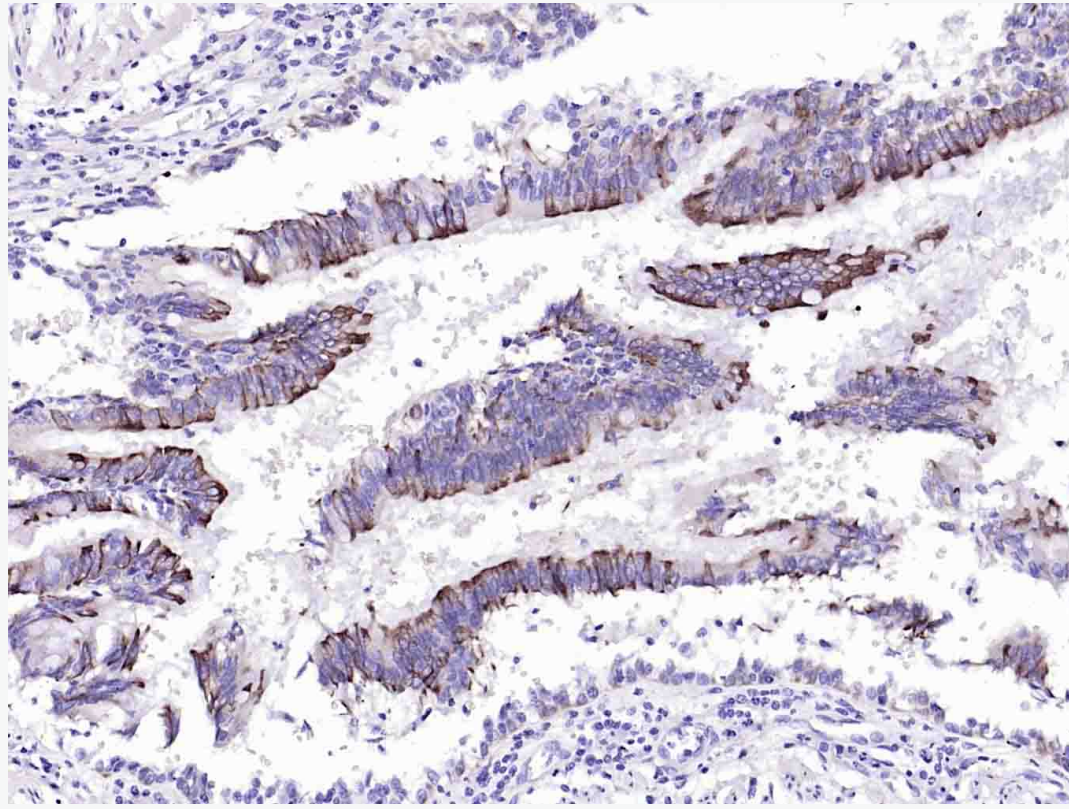
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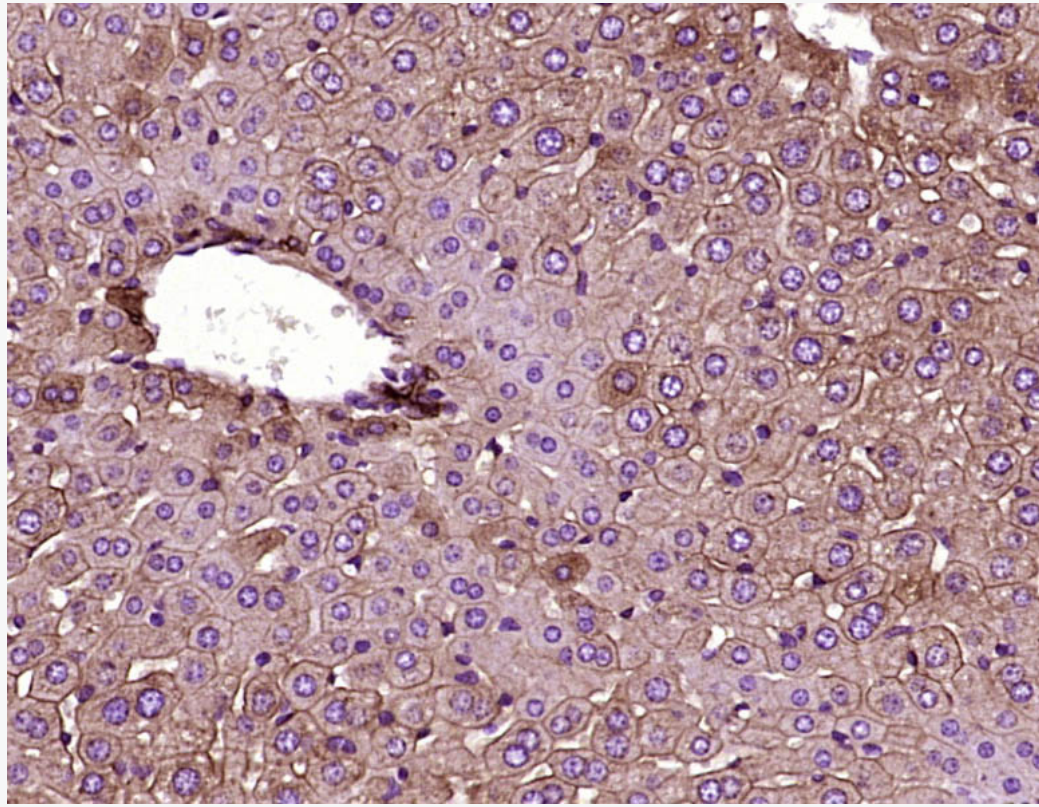
Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SLM-33103M) Monoclonal Antibody, Unconjugated (SLM-33103M) at 1:200 overnight at 4°C, followed by DAB staining according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



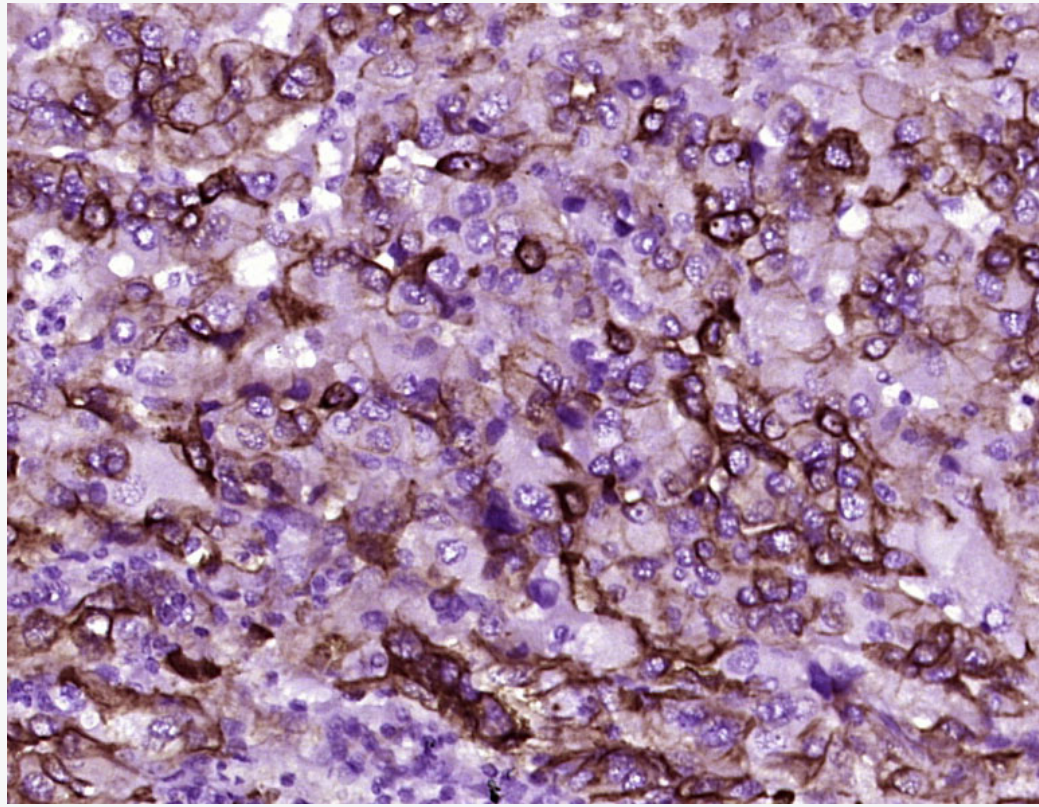
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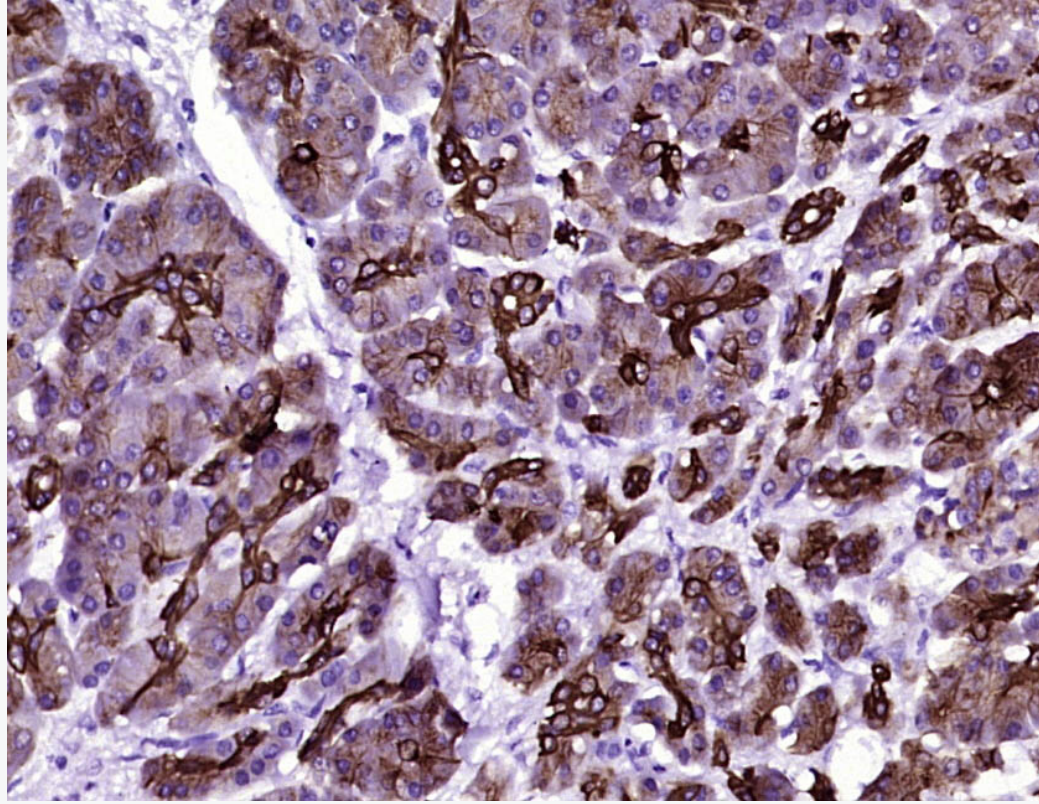
Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 30min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK18) Mouse Monoclonal Antibody, Unconjugated (SLM-33103M) at 1:200 overnight at 4°C, followed by operating according to the DAB Kit(Mouse)(sp-0024) instructions and DAB staining.



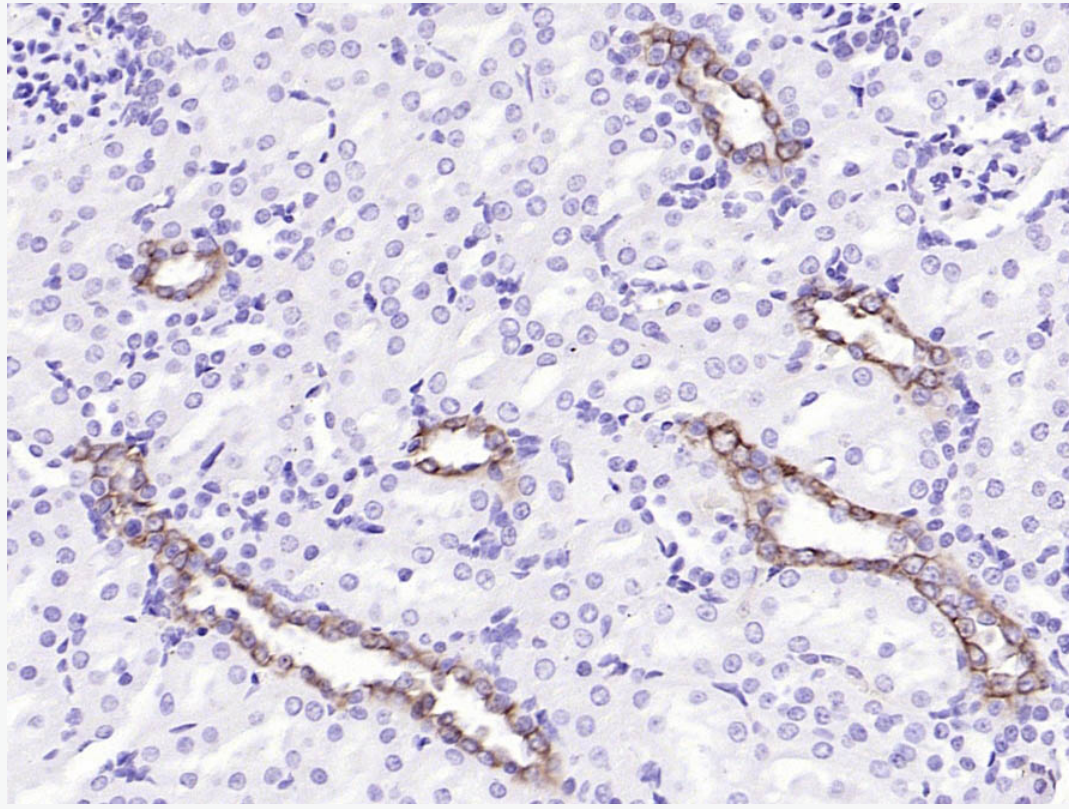
Paraformaldehyde-fixed, paraffin embedded (Mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Block non-specific binding by 3% normal goat serum in PBS buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK18) Monoclonal antibody (ascites of SLM-33103M 10H2) at 1:2000 overnight at 4°C, followed by a conjugated secondary antibody (sp-0024) for 20 minutes and DAB staining.



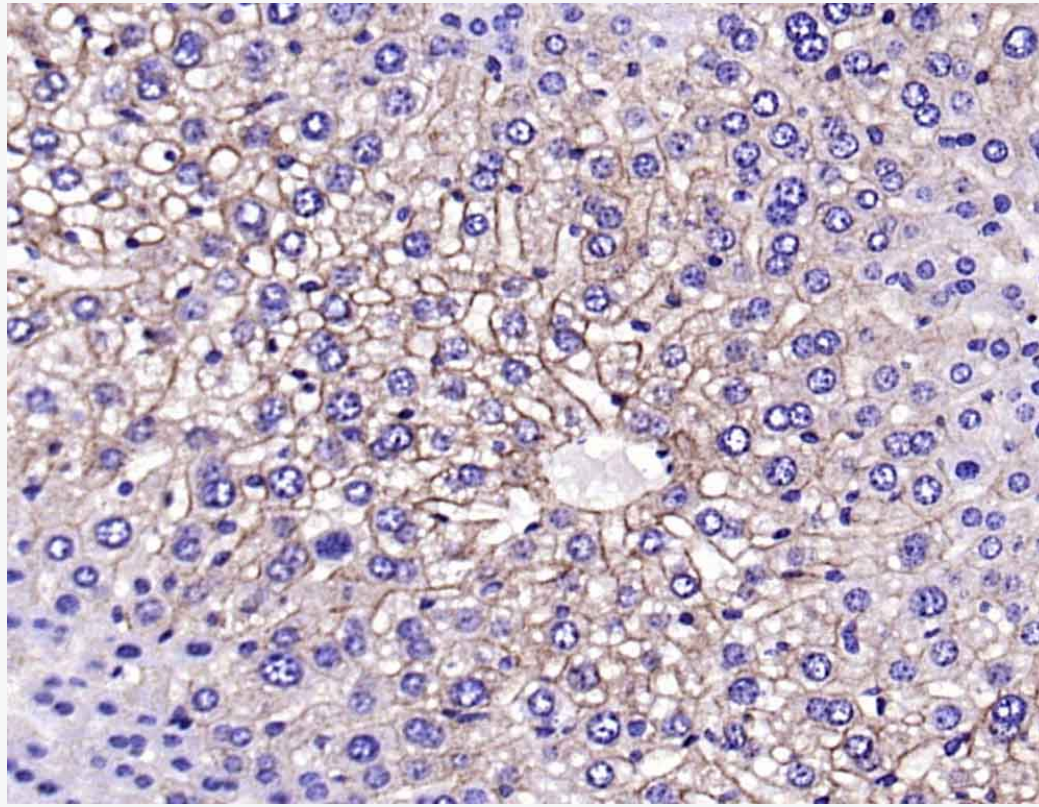
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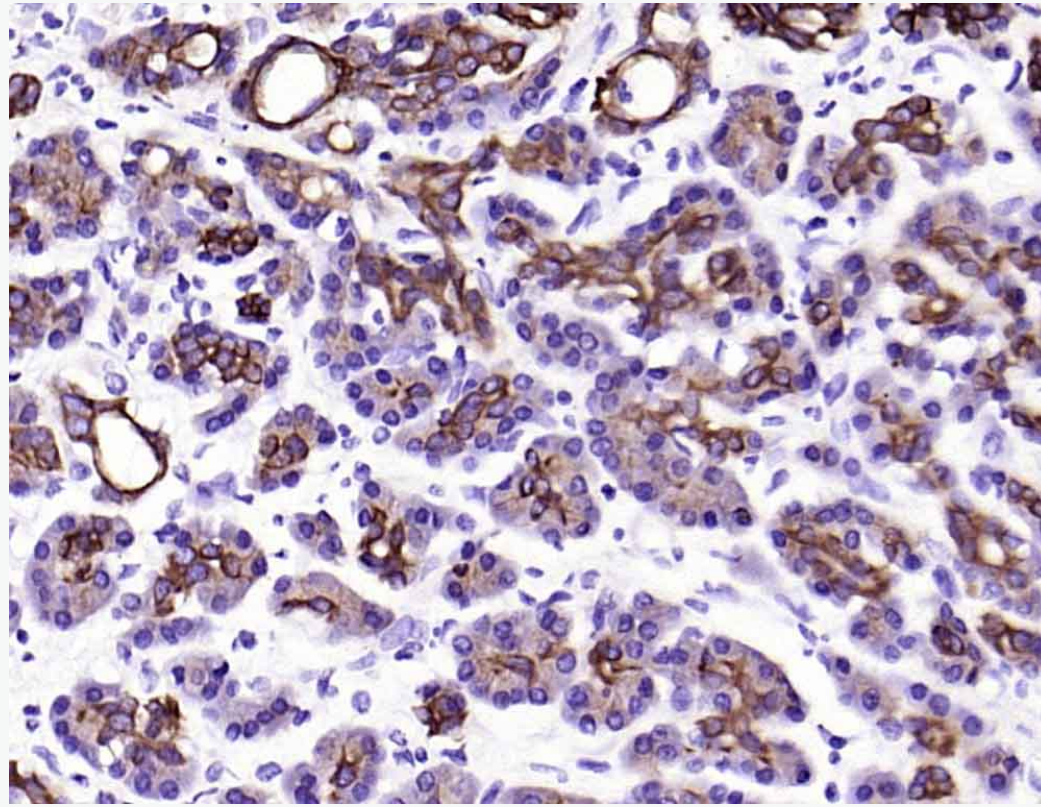
Paraformaldehyde-fixed, paraffin embedded (Human pancreatic cancer); Antigen retrieval by sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (1:1000) Monoclonal Antibody, Unconjugated (ascites of SLM-33103M 10H2) at 1:2000 overnight at 4°C; Wash with PBS; Incubate with a conjugated secondary (sp-0024) for 20 minutes and DAB staining.



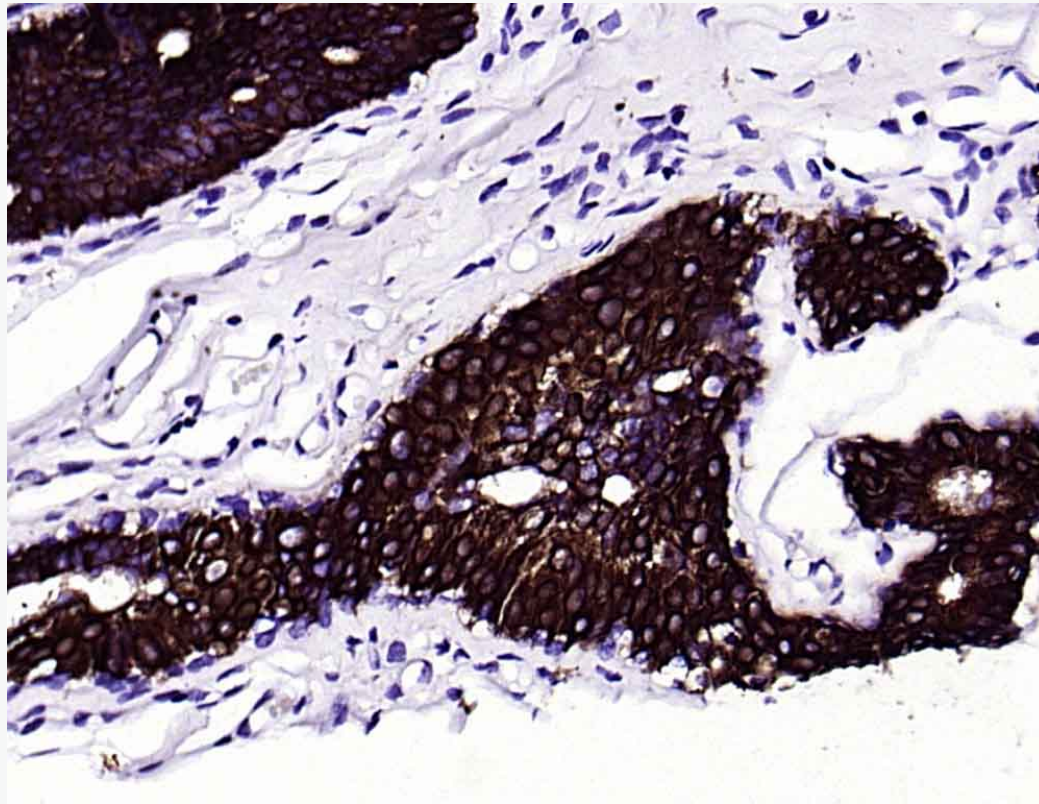
Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Block non-specific binding by 3% normal goat serum at 37°C for 30min; Antibody incubation with (CK18) Monoclonal Antibody (SLM-33103M) at 1:200 overnight at 4°C, followed by operating according to DAB staining Kit(Mouse)(sp-0024) instructions and DAB staining.



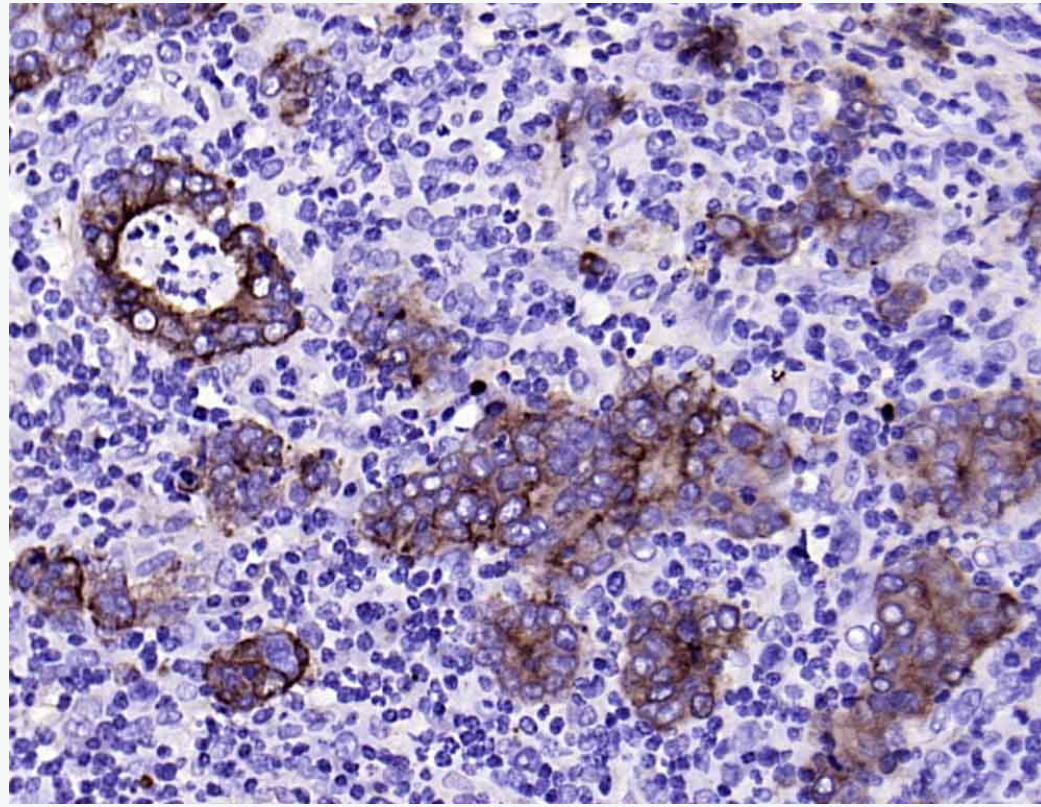
Paraformaldehyde-fixed, paraffin embedded (mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Block non-specific binding by 3% normal goat serum in Tris-buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK18) Monoclonal Antibody (CK18) Unconjugated (ascites of SLM-33103M 10H2) at 1:2000 overnight at 4°C, followed by operation according to the SP Kit(Mouse) (sp-0024) instructions and DAB staining.



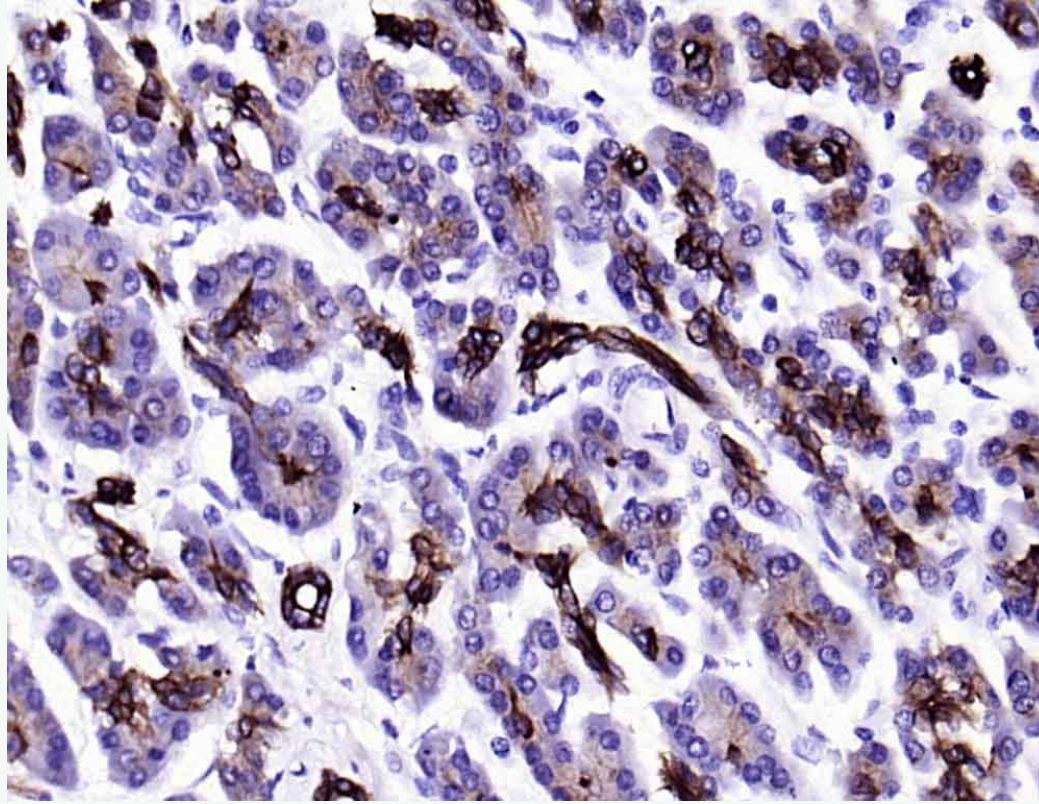
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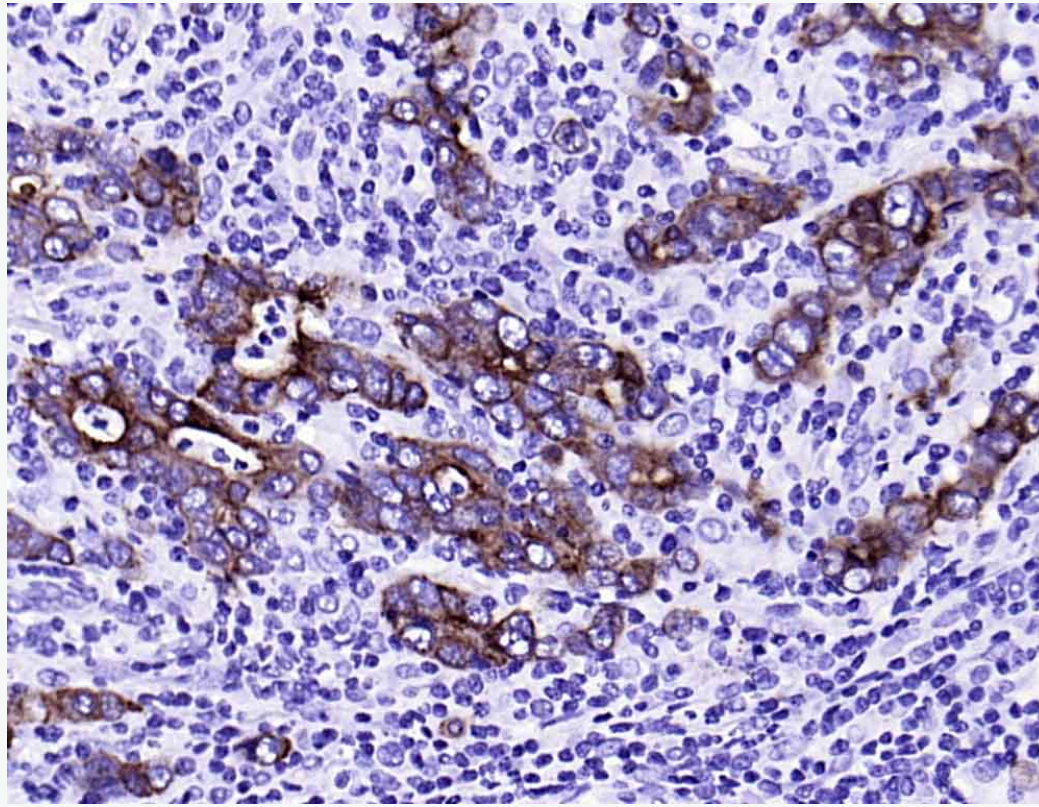
Paraformaldehyde-fixed, paraffin embedded (human breast); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Block non-specific binding by 3% normal goat serum in sodium citrate buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK18) Monoclonal Antibody (SLM-33103M) Unconjugated (SLM-33103M) at 1:200 overnight at 4°C, followed by operating according to DAB staining Kit(Mouse)(sp-0024) instructions and DAB staining.



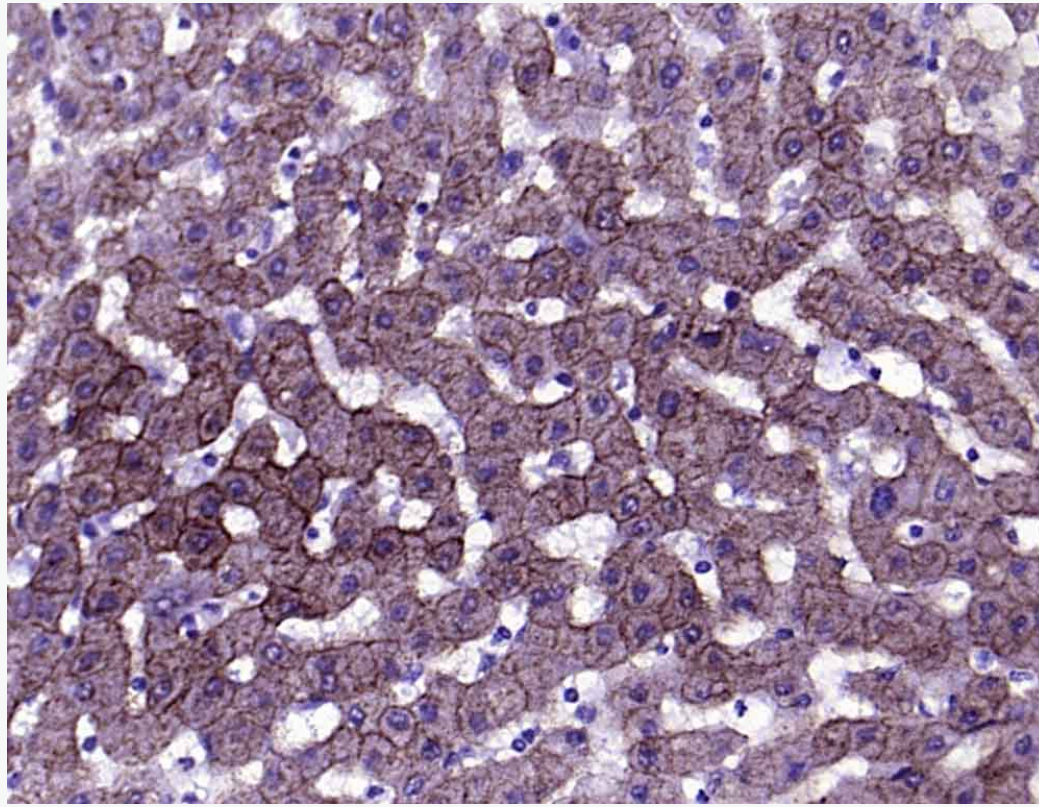
Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SLM-33103M) Monoclonal Antibody, Unconjugated (SLM-33103M) at 1:200 overnight at 4°C, followed by DAB staining according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



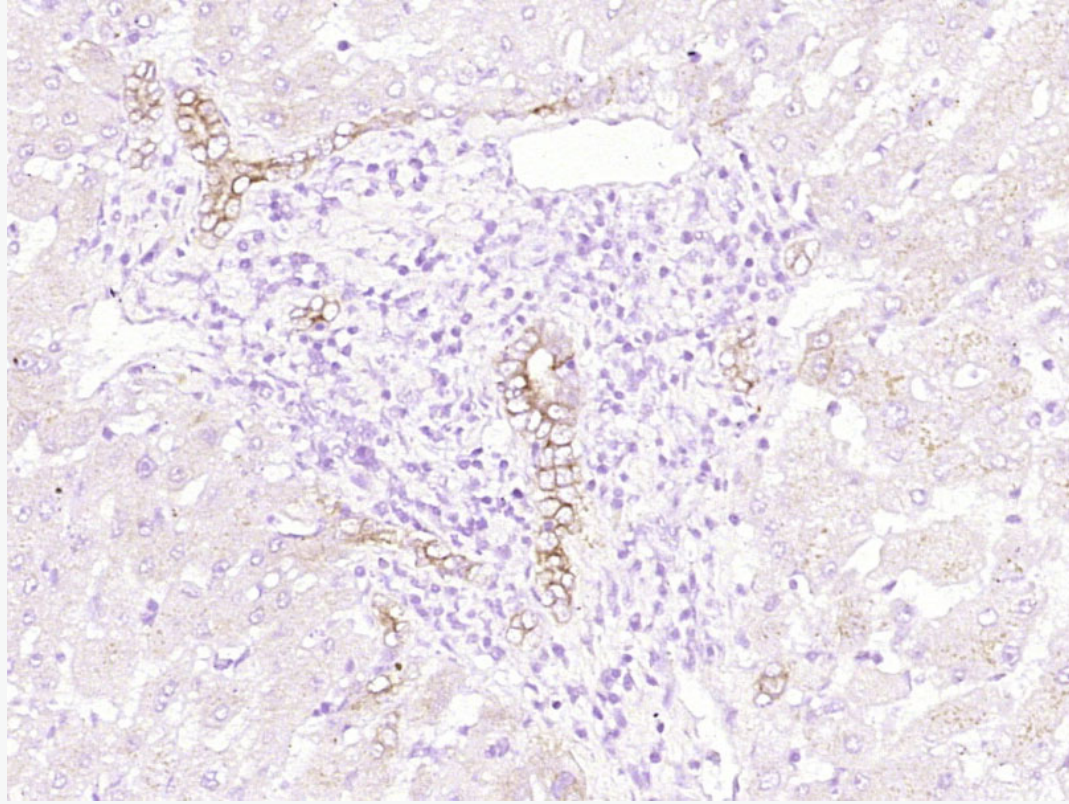
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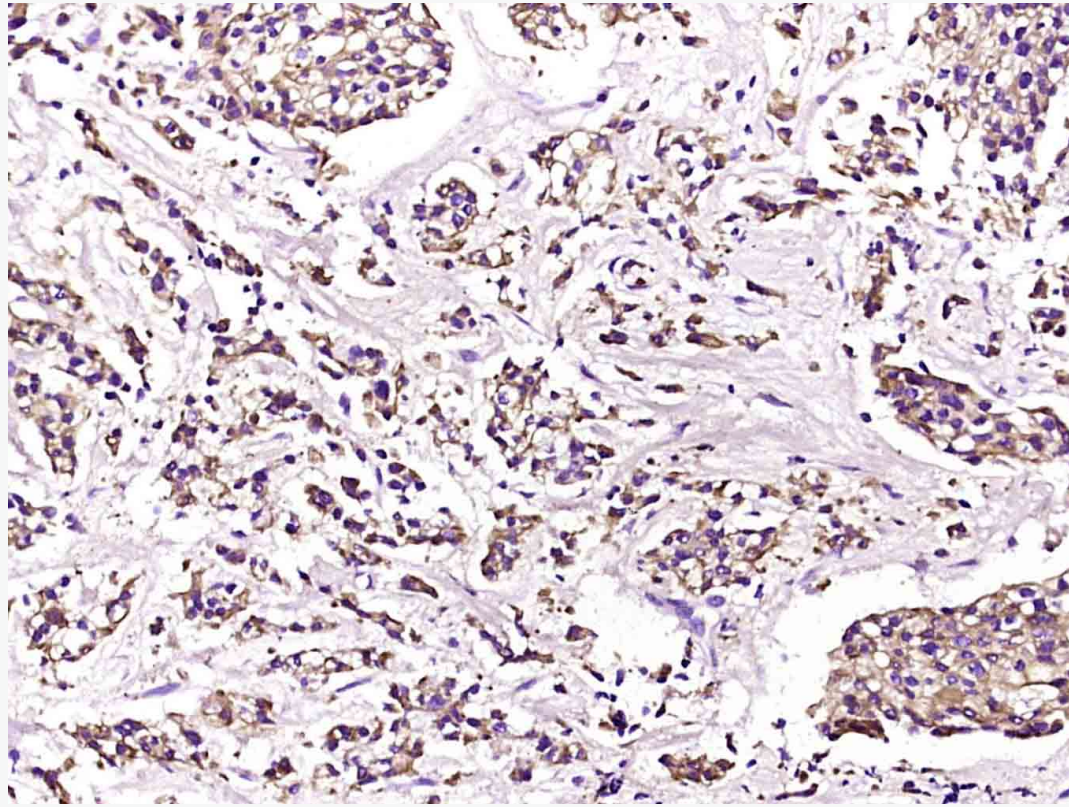
Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C) Monoclonal Antibody, Unconjugated (ascites of SLM-33103M 10H2) at 1:2000 overnight at 4°C, operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



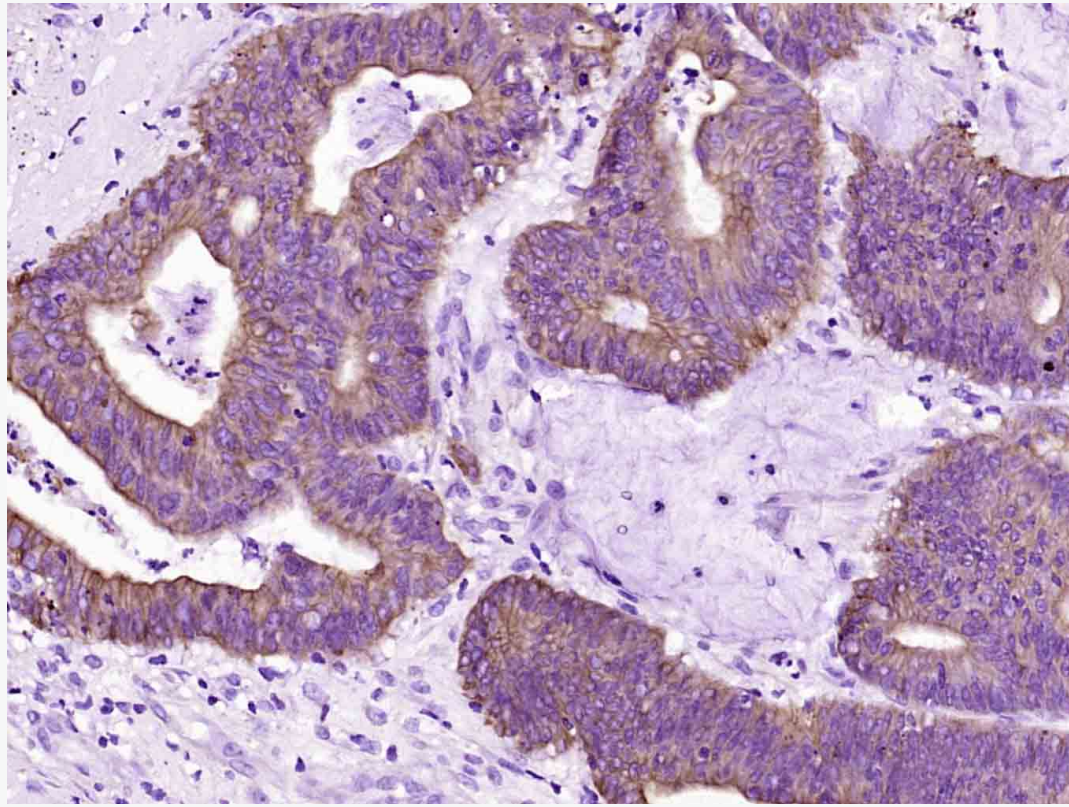
Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 30min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK18) Mouse Monoclonal Antibody, Unconjugated (SLM-33103M) at 1:200 overnight at 4°C, followed by operating according to the Kit(Mouse)(sp-0024) instructions and DAB staining.



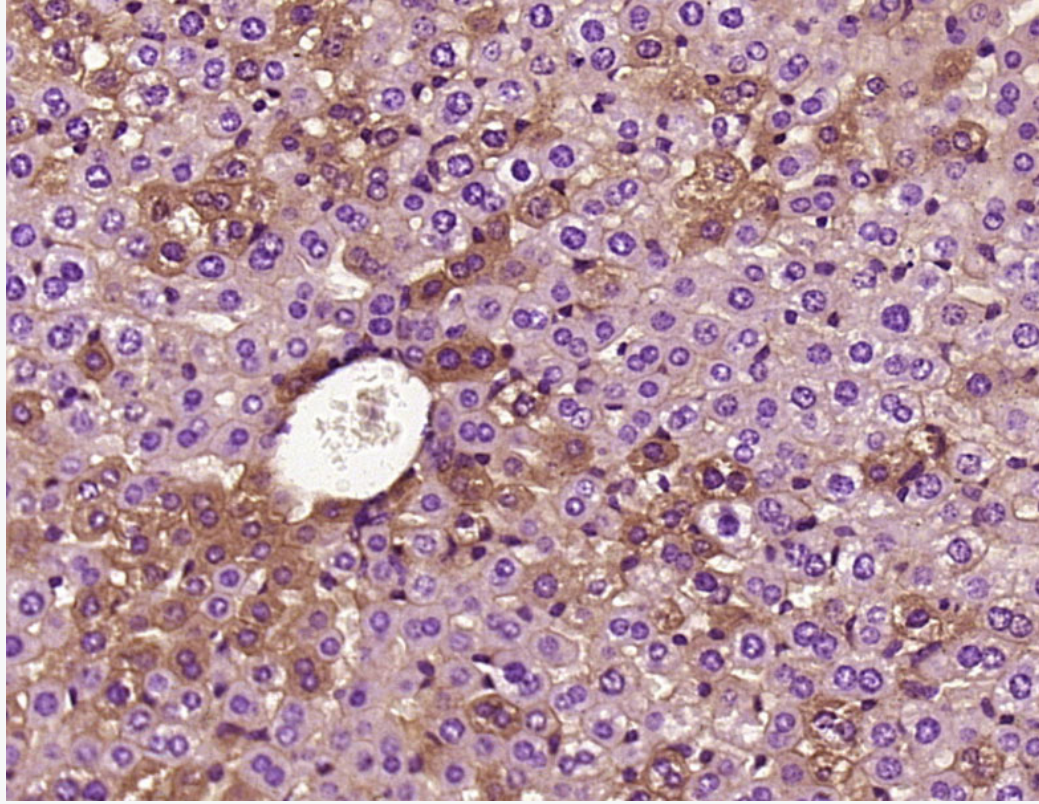
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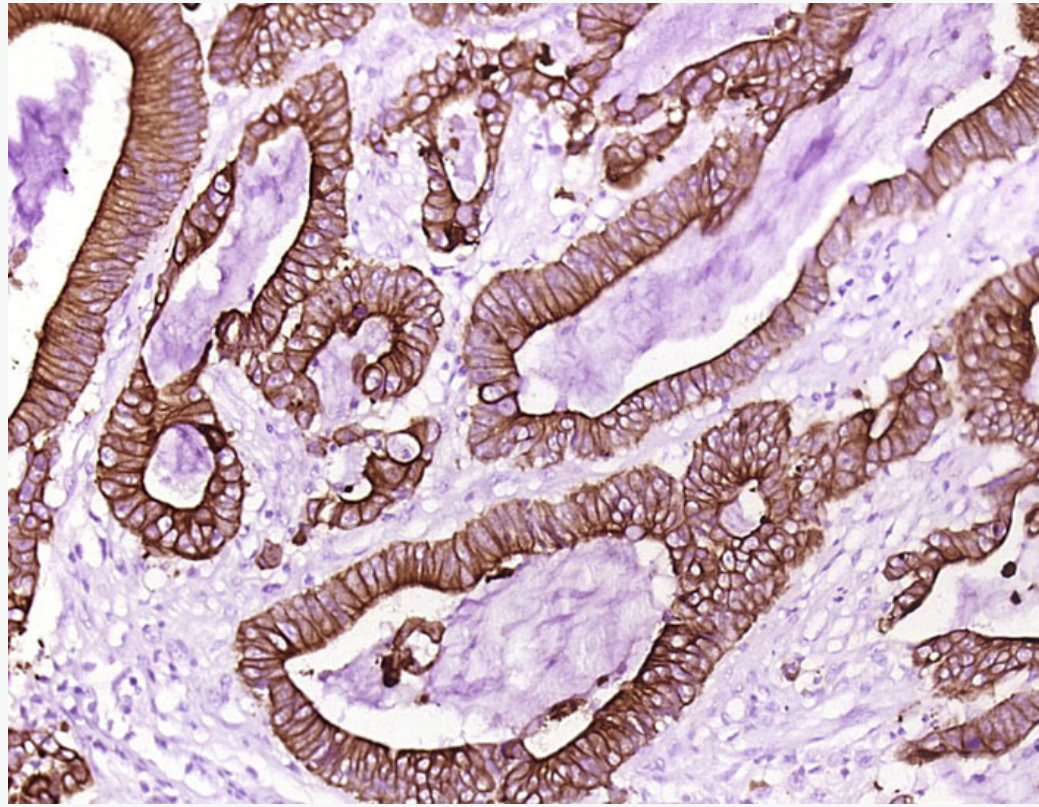
Paraformaldehyde-fixed, paraffin embedded (Human esophageal cancer); Antigen retrieval by sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SLM-33103M) Monoclonal Antibody, Unconjugated (SLM-33103M) at 1:200 overnight at 4°C, followed by DAB staining according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



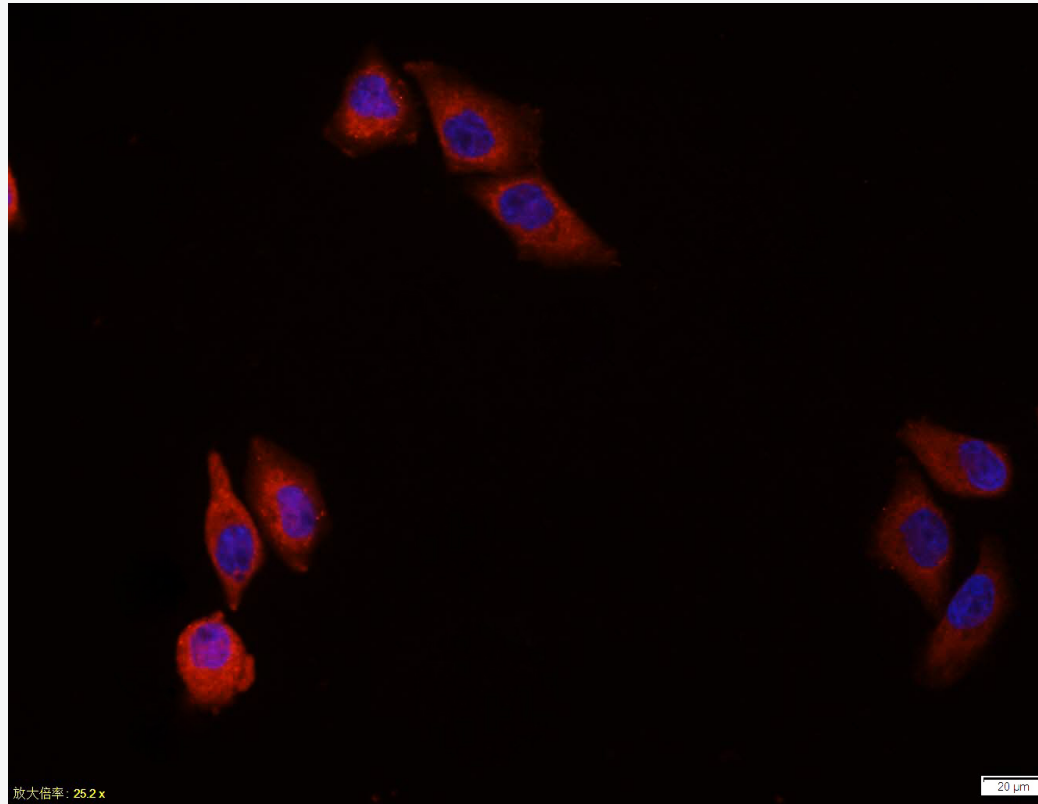
Paraformaldehyde-fixed, paraffin embedded (human descend colon carcinoma); Antigen retrieval in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C) Monoclonal Antibody, Unconjugated (SLM-33103M) at 1:200 overnight at 4°C, followed by DAB staining according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



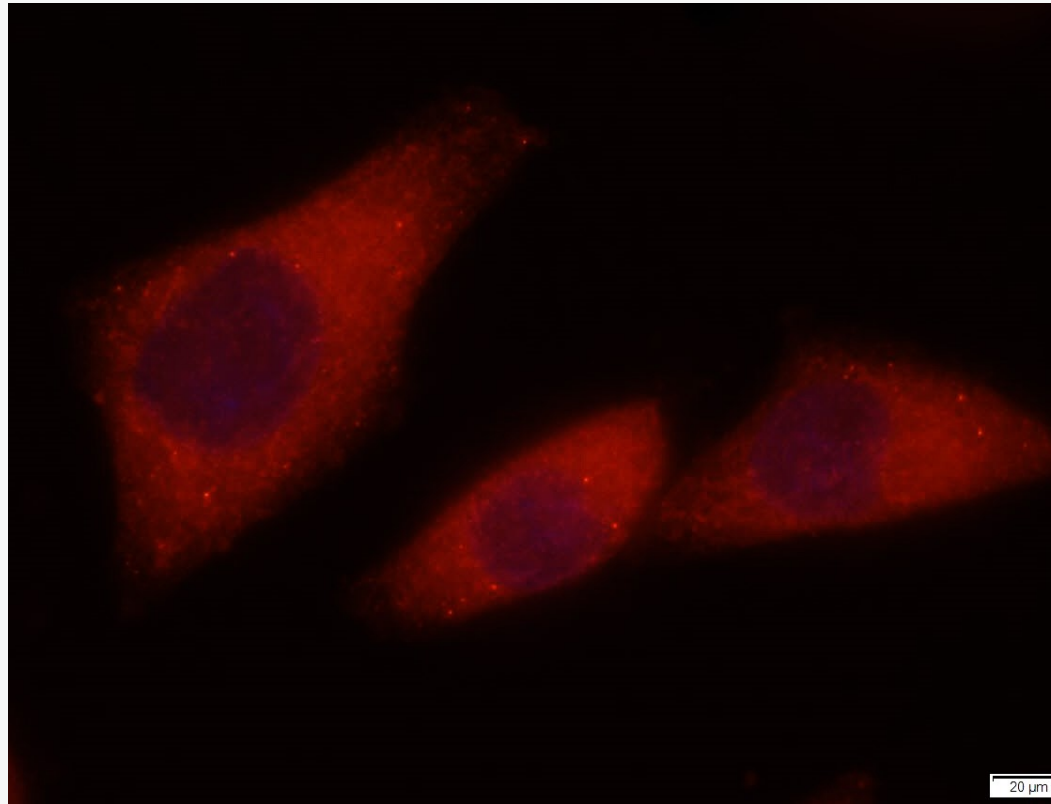
Paraformaldehyde-fixed, paraffin embedded (Mouse liver); Antigen retrieval by boiling in so buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK18) Monoclonal Unconjugated (SLM-33103M-10H2) at 1:400 overnight at 4°C, followed by operating accord Kit(Mouse) (sp-0023) instructionsand DAB staining.



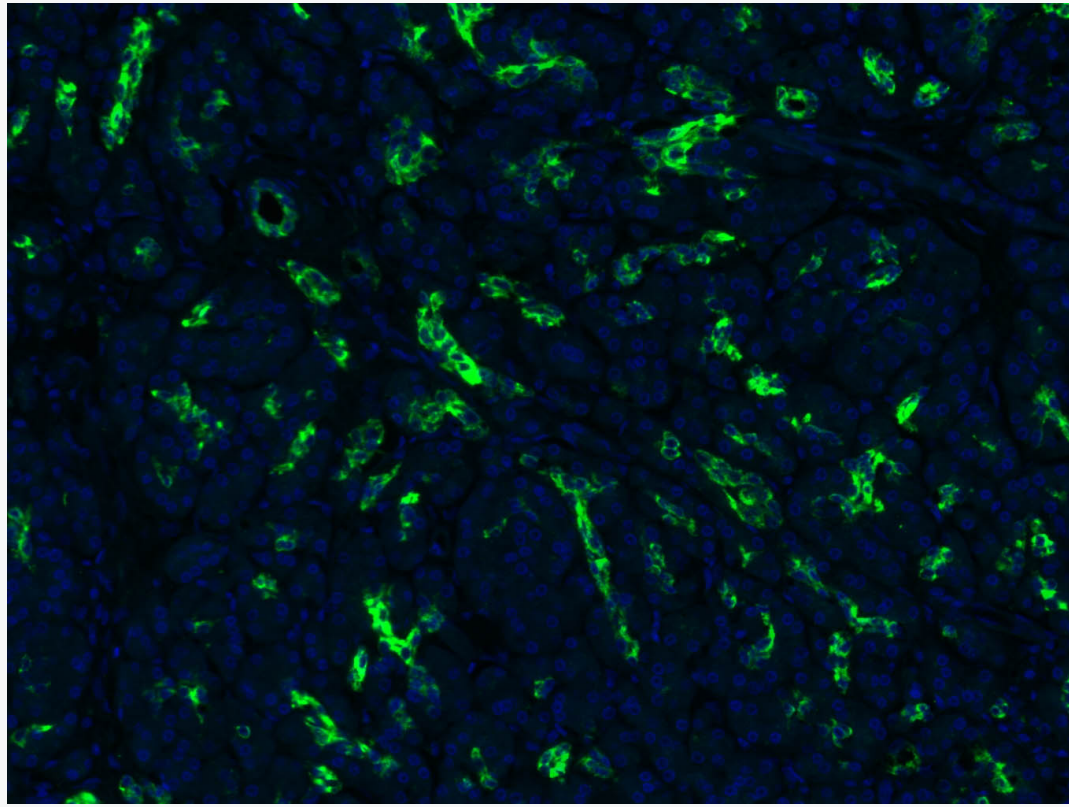
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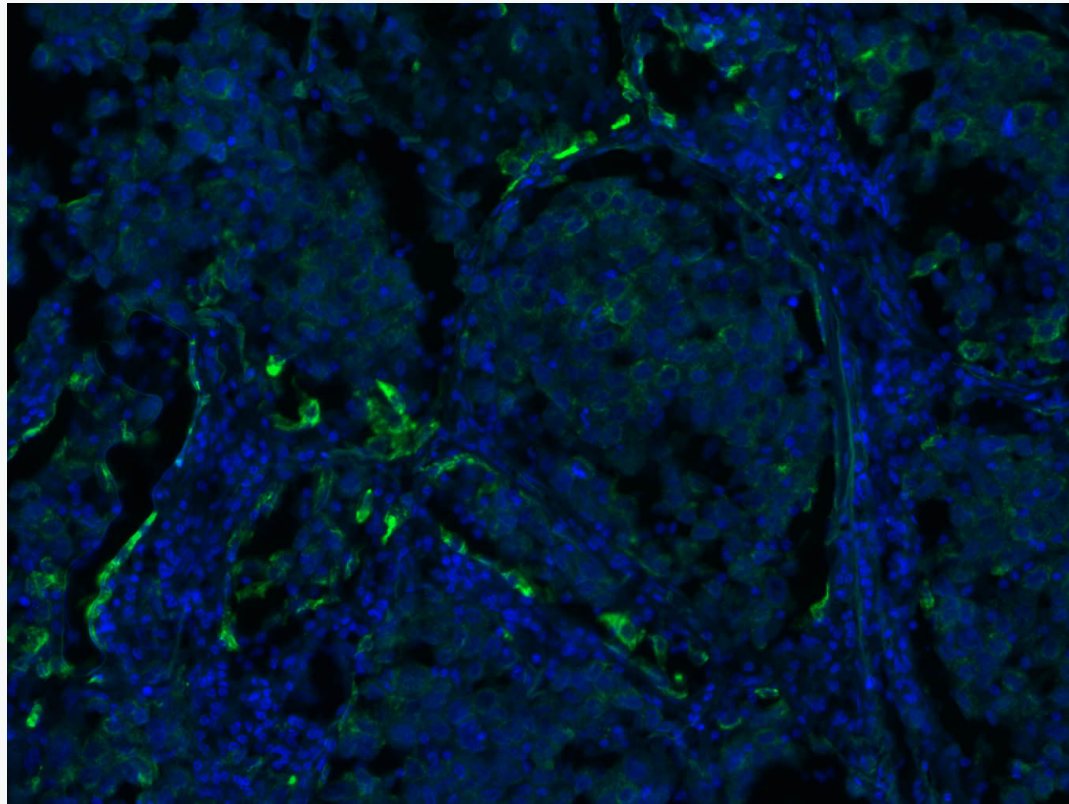
Tissue/cell:HeLa cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (CK18) monoclonal antibody, Unconjugated (SLM-33103M) 1:100, 90 minutes at 37°C; followed by a CY3 conjugated Anti-Mouse IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain



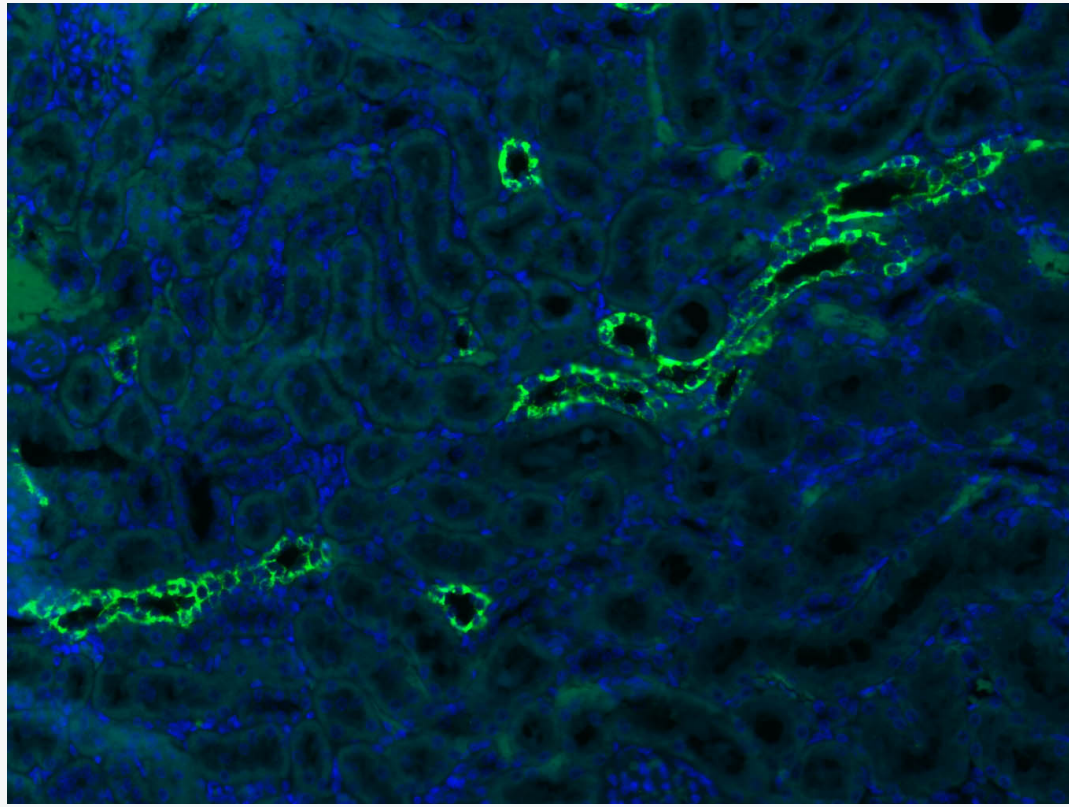
Tissue/cell:HeLa cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; 1% BSA in PBS buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (CK18) mouse monoclonal antibody, Unconjugated (SLM-33103M) 1:100, 90 minutes at 37°C; followed by a CY3 conjugated secondary Anti-Mouse IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the nuclei.



Paraformaldehyde-fixed, paraffin embedded (human pancreatic carcinoma); Antigen retrieval in sodium citrate buffer (pH6.0) for 15min; Blocking buffer (normal goat serum) at 37°C for 30min; incubation with (CK18) Monoclonal Antibody, Unconjugated (SLM-33103M) at 1:500 overnight, followed by a conjugated Goat Anti- Mouse IgG antibody (YF488) for 90 minutes, and DAPI nuclear staining.



Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in citrate buffer (pH6.0) for 15min; Blocking buffer (normal goat serum) at 37°C for 30min; Antigen detection with (CK18) Monoclonal Antibody, Unconjugated (SLM-33103M) at 1:300 overnight at 4°C; Secondary antibody: Cy3 conjugated Goat Anti- Mouse IgG antibody (YF488) for 90 minutes, and DAPI for nuclei staining.



Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with Monoclonal Antibody, Unconjugated (SLM-33103M) at 1:300 overnight at 4°C, followed by secondary antibody incubation with Goat Anti- Mouse IgG antibody (YF488) for 90 minutes, and DAPI for nuclei staining.