

Mouse Anti-Cytokeratin 20 antibody

SLM-34154M

Product Name Cytokeratin 20

Chinese Name 细胞角蛋白 20 抗体

Alias CK 20; CK20; Cytokeratin20; K20; Keratin 20; Keratin type I cytoskeletal 20; Keratin20; KRT 20; KRT 21; KRT20; KRT21; MGC35423; Protein IT; K1C20_HUMAN.

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 18F9

React Species Human,Mouse,Rat

Applications IHC-P=1:100-500, IHC-F=1:100-500, IF=1:100-500
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 48kDa

Cellular localization cytoplasmic

Form Lyophilized or Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human CK20

Lsotype IgG2b, κ

Purification affinity purified by Protein A

Buffer Solution Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.136% sodium azide.

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 Detail Cytokeratin 20 is a type I keratin which is primarily expressed in gastric and intestinal epithelium, urothelium, and Merkel-cells. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into

cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Their genes are clustered in a region of chromosome 17q12-q21. Cytokeratin 20 is a major cellular protein of mature enterocytes and goblet cells and is specifically expressed in the gastric and intestinal mucosa. It is also expressed in adenocarcinomas of the colon, stomach, pancreas and the bile system and is present in mucinous ovarian tumors, transitional-cell and Merkel-cell carcinomas. Notably, the squamous cell carcinomas and adenocarcinomas of the breast, lung, and endometrium, non-mucinous tumors of the ovary, and small cell carcinomas lack cytokeratin 20.

Function:

Plays a significant role in maintaining keratin filament organization in intestinal epithelia. When phosphorylated, plays a role in the secretion of mucin in the small intestine (By similarity).

Subunit:

Heterotetramer of two type I and two type II keratins. Associates with KRT8.

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Expressed predominantly in the intestinal epithelium. Expressed in luminal cells of colonic mucosa. Also expressed in the Merkel cells of keratinized oral mucosa; specifically at the tips of some rete ridges of the gingival mucosa, in the basal layer of the palatal mucosa and in the taste buds of lingual mucosa.

Post-translational modifications:

Hyperphosphorylation at Ser-13 occurs during the early stages of apoptosis but becomes less prominent during the later stages. Phosphorylation at Ser-13 also increases in response to stress brought on by cell injury (By similarity). Proteolytically cleaved by caspases during apoptosis. Cleavage occurs at Asp-228.

Similarity:

Belongs to the intermediate filament family.

SWISS:

P35900

Gene ID:

54474

Database links:

[Entrez Gene: 54474](#) Human

[Entrez Gene: 66809](#) Mouse

[Entrez Gene: 286912](#) Rat

[Omim: 608218](#) Human

[SwissProt: P35900](#) Human

[SwissProt: Q9D312](#) Mouse

[SwissProt: P25030](#) Rat

[Unigene: 84905](#) Human

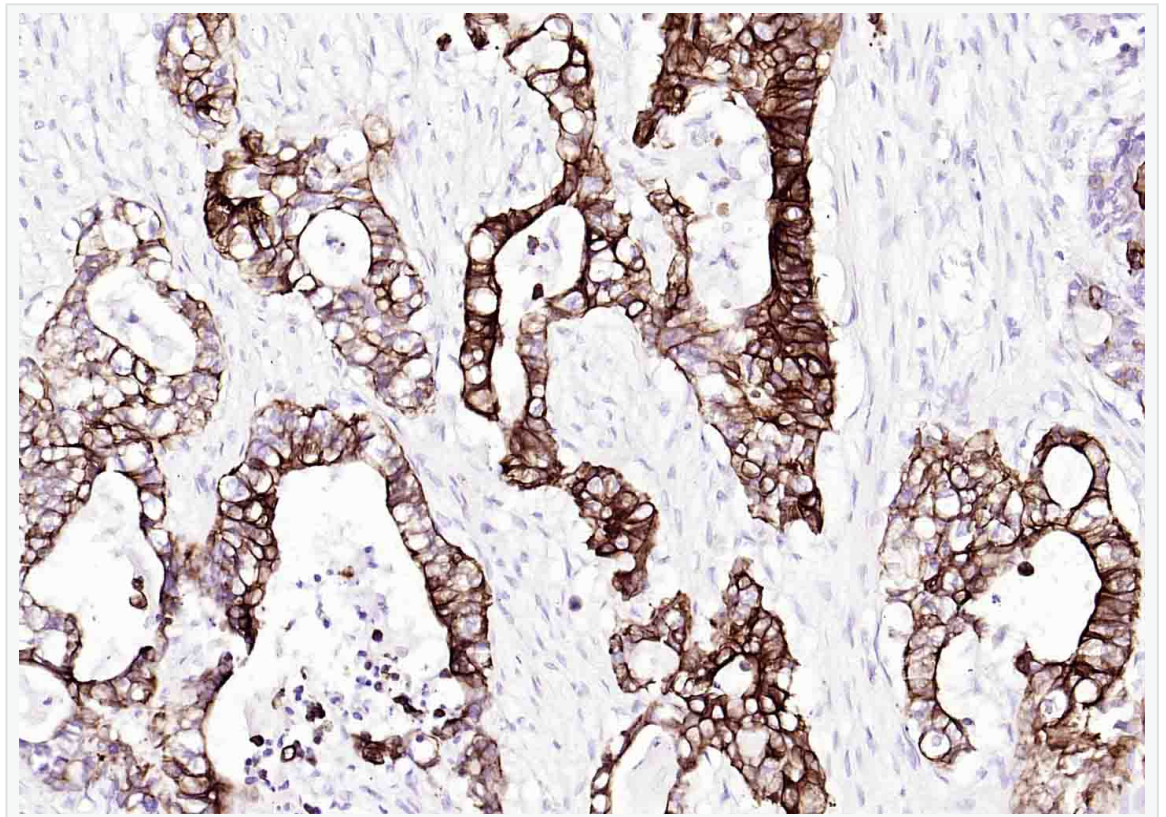
[Unigene: 28042](#) Mouse

[Unigene: 9887](#) Rat

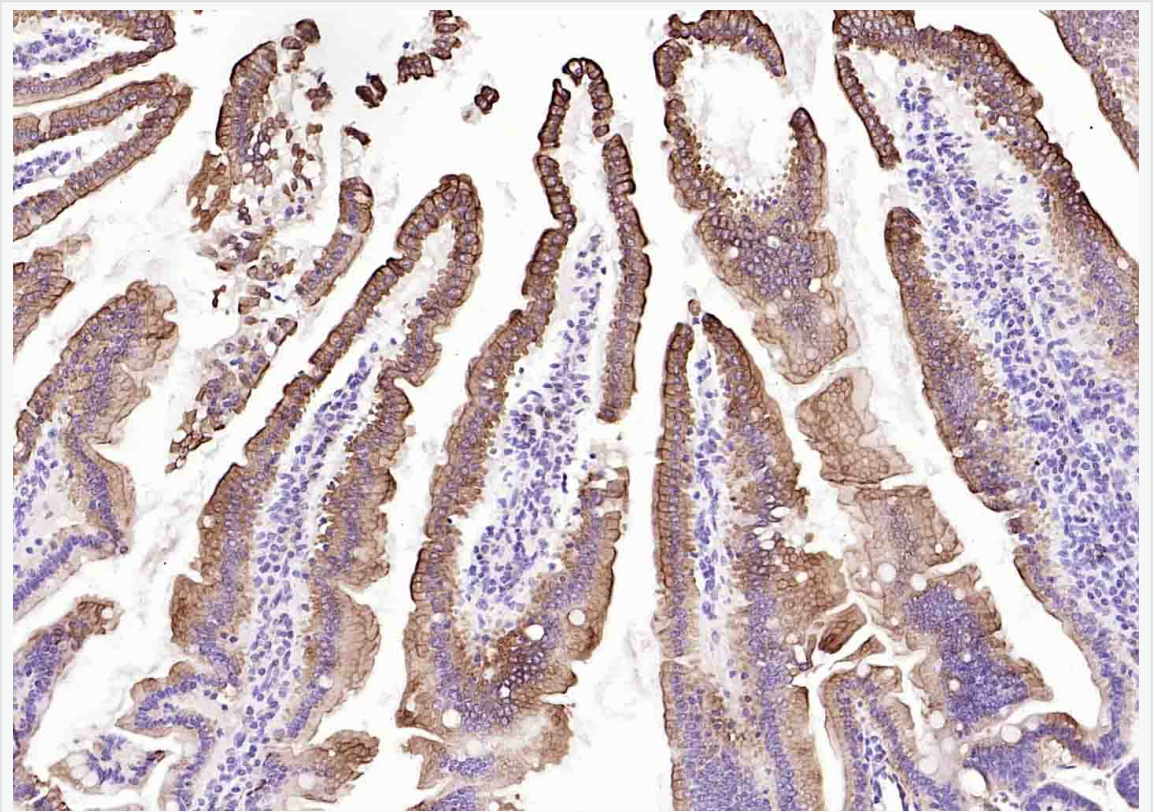
结构蛋白（Structural Proteins）

CK-20 细胞角蛋白-20 主要用于 Tumour 方面的研究，近年来大多用于消化系统恶性 Tumour 的鉴别，主要在胞浆。

**Product
Picture**

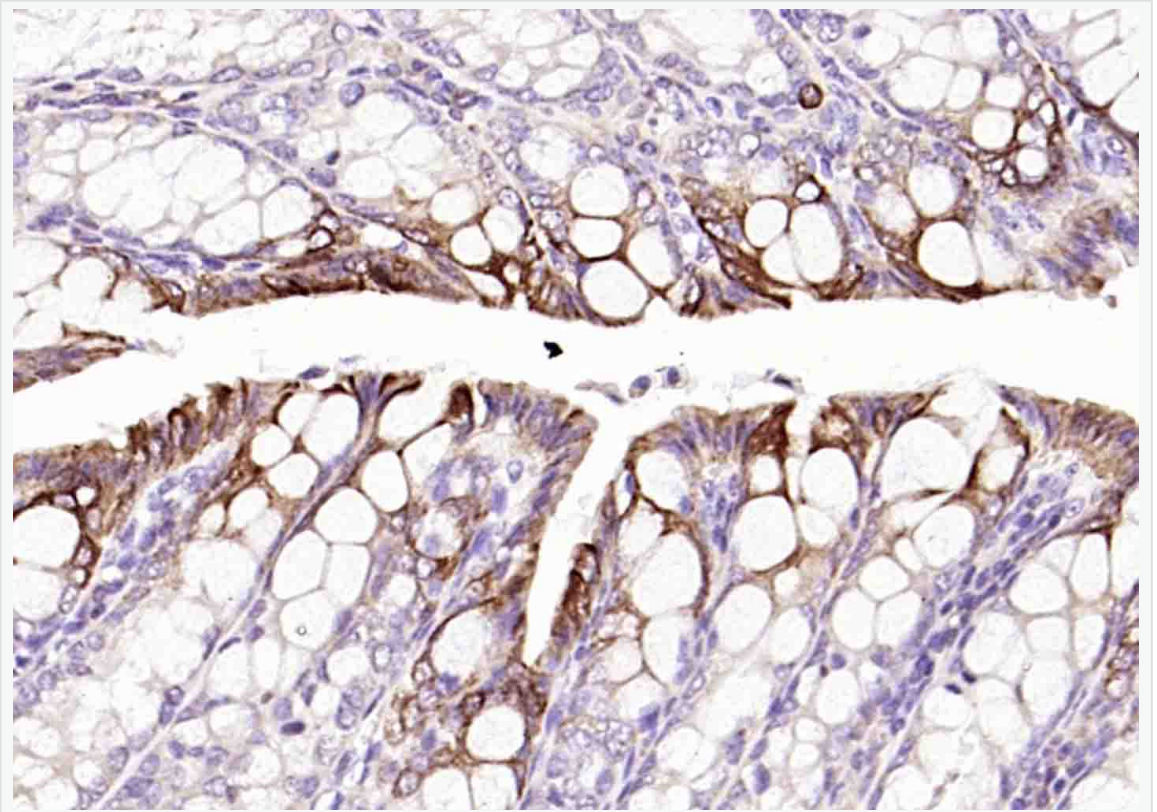


Paraformaldehyde-fixed, paraffin embedded (human rectal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Cytokeratin 20) Monoclonal Antibody, Unconjugated (SLM-34154M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

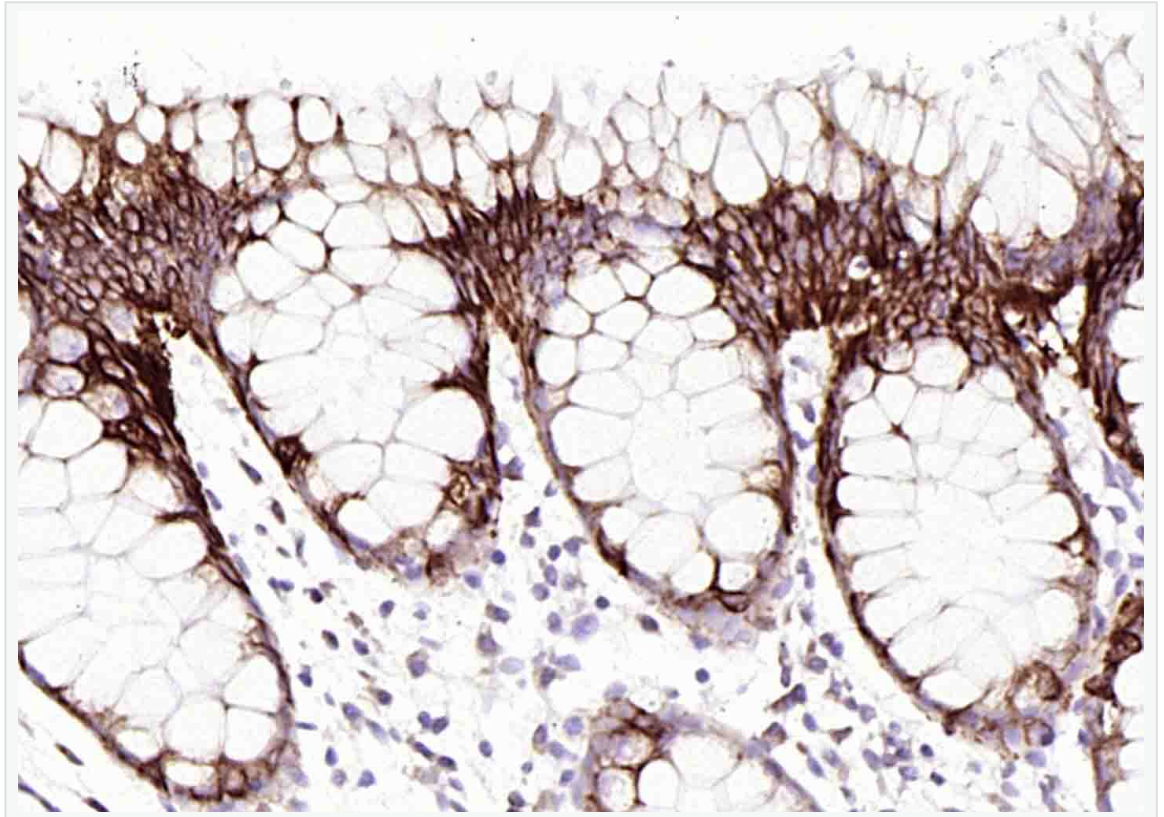


Paraformaldehyde-fixed, paraffin embedded (Mouse small intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for

30min; Incubation with (Cytokeratin 20) Monoclonal Antibody, Unconjugated (SLM-34154M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



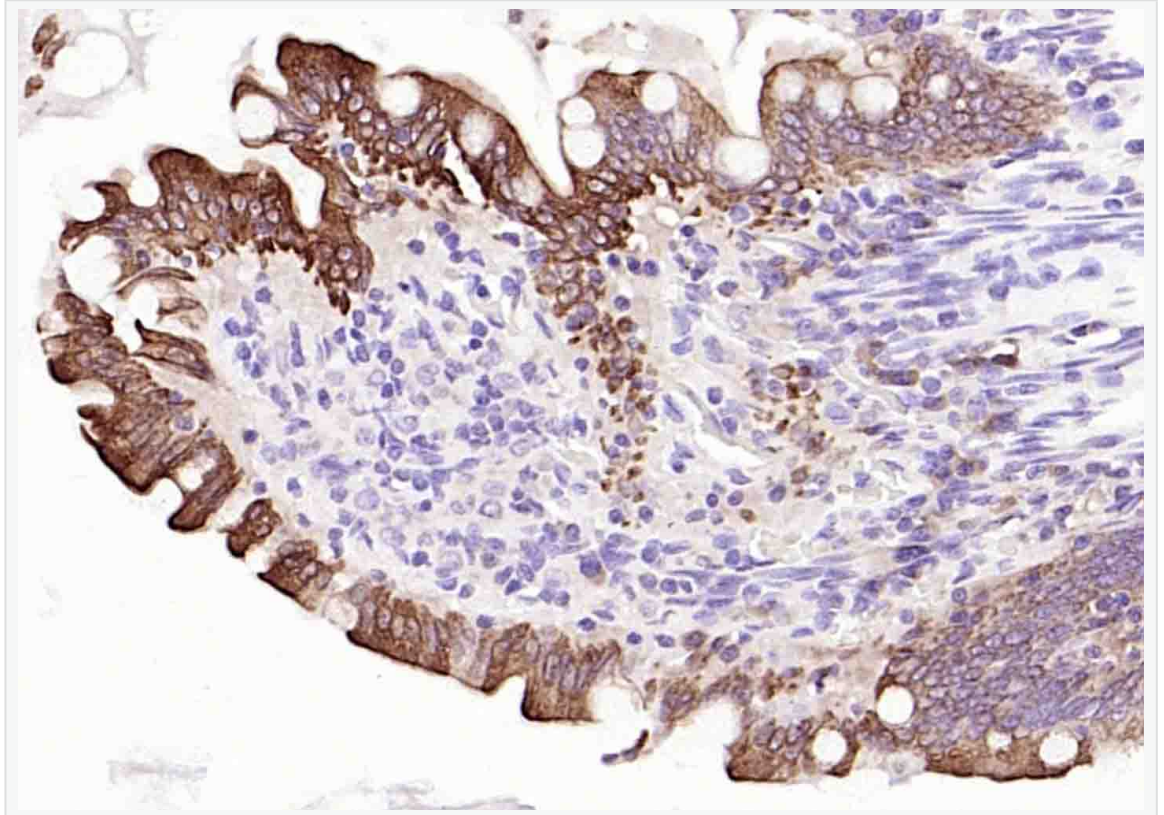
Paraformaldehyde-fixed, paraffin embedded (mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Cytokeratin 20) Monoclonal Antibody, Unconjugated (SLM-34154M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



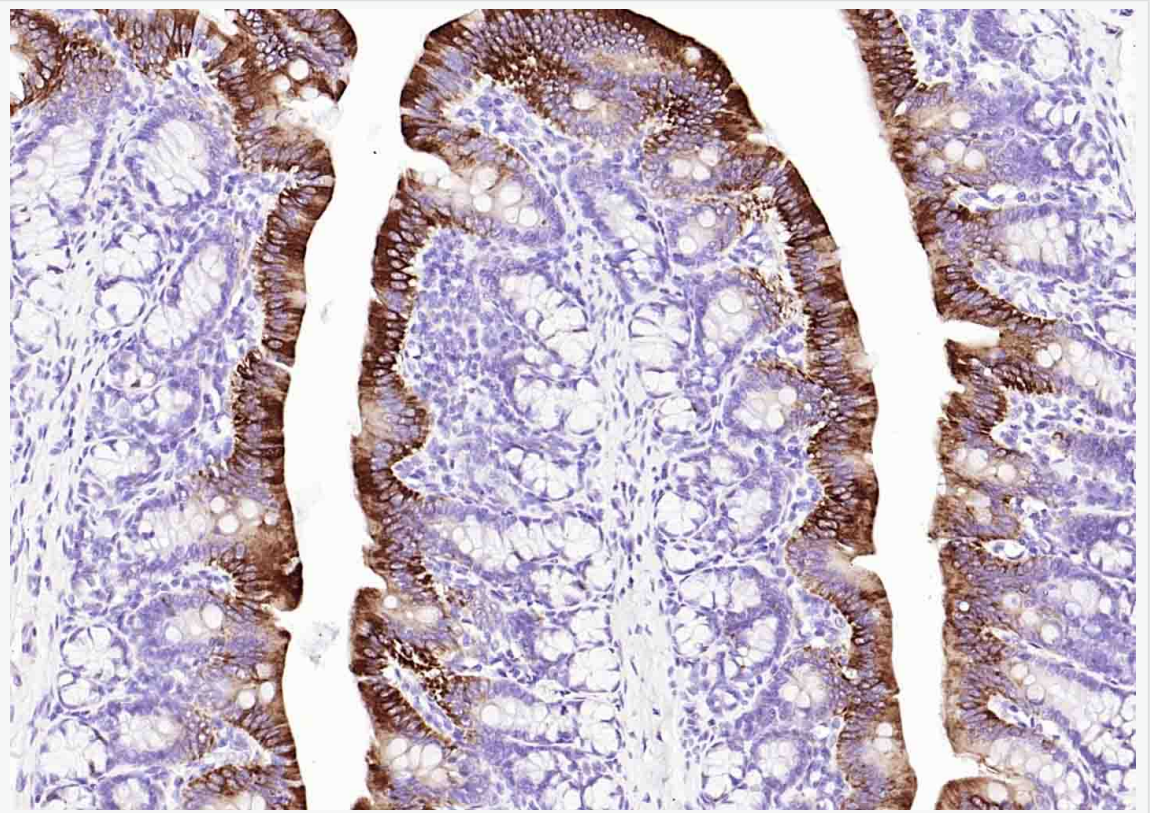
Paraformaldehyde-fixed, paraffin embedded (human colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Cytokeratin 20) Monoclonal Antibody, Unconjugated (SLM-34154M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon 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; Incubation with (Cytokeratin 20) Monoclonal Antibody, Unconjugated (SLM-34154M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat intestine); 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; Incubation with (Cytokeratin 20) Monoclonal Antibody, Unconjugated (SLM-34154M) at 1:200 overnight at 4°C, followed by 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 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Cytokeratin 20) Monoclonal Antibody, Unconjugated (SLM-34154M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.