



## Mouse Anti-CK20 antibody (BH0221)

BH0221

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<b>Product Name:</b>	CK20
<b>Chinese Name:</b>	小鼠抗细胞角蛋白20单克隆抗体
<b>Alias:</b>	Cytokeratin 20; CK 20; CK20; Cytokeratin20; K20; Keratin 20; Keratin type I cytoskeletal 20; Keratin20; KRT 20; KRT 21; KRT20; KRT21; MGC35423; Protein IT; K1C20 HUMAN.
<b>Organism Species:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>克隆号:</b>	6A12
<b>React Species:</b>	Human,
<b>Applications:</b>	IHC-P=1:100-500IHC-F=1:100-500ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	48kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CK20:
<b>Lsotype:</b>	IgG2a
<b>Purification:</b>	affinity purified by Protein G
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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

[Oimim: 608218](#)Human

[SwissProt: P35900](#)Human

[SwissProt: Q9D312](#)Mouse

[SwissProt: P25030](#)Rat

[Unigene: 84905](#)Human

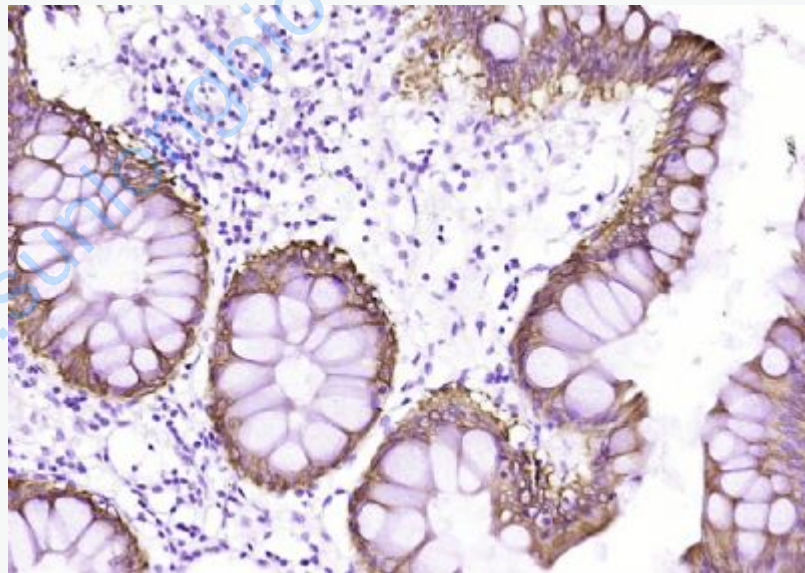
[Unigene: 28042](#)Mouse

[Unigene: 9887](#)Rat

**Important Note:**

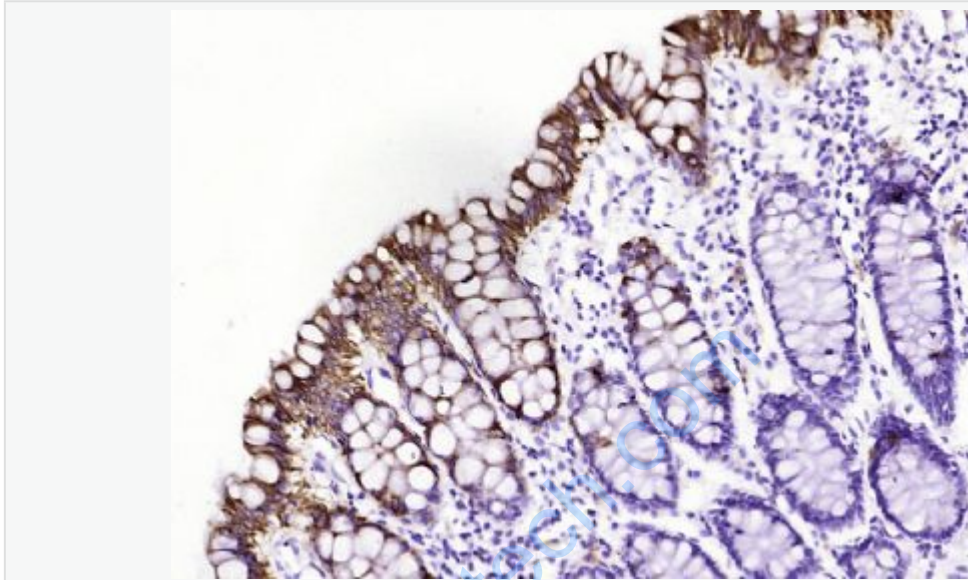
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**Picture:**



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; Antibody incubation with (CK20) Monoclonal Antibody, Unconjugated (BH0221) at 1:200 overnight at 4°C, followed by operating according

to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



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