

Mouse Anti-Cytokeratin 19 (ready to use)antibody (BH0003)

BH0003

Product Name	Cytokeratin 19(ready to use)
Chinese Name	人细胞角蛋白 19 单克隆抗体 (工作液)
Alias	40 kDa keratin intermediate filament; CK 19; ck19; CK19; CK-19; KRT19; Cytokeratin19; Cytokeratin-19; k19; k1cs; Keratin 19; Keratin-19; Keratin type I 40 kD; Keratin type I 40kD; Keratin type I cytoskeletal 19; krt19; mgc15366; K1C19_HUMAN; Keratin, type I cytoskeletal 19; Keratin, type I, 40 kd
Research Area	Tumour Cell biology Stem cells
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	10H7
React Species	Human,
Applications	WB=1:500-2000,IHC-P=1:100-1500,IHC-F=1:100-1500,ICC/IF=1:100-500,IF=1:100-1500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	40kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
immunogen	KLH conjugated synthetic peptide derived from human Cytokeratin 19
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer	1M PBS(pH7.4) with 1% BSA and 0.1% Proclin300

Solution

Storage Store at 2-8 °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](#)

Due to its high sensitivity, KRT19 is the most used marker for the RT-PCR-mediated detection of tumor cells disseminated in lymph nodes, peripheral blood, and bone marrow of breast cancer patients. Depending on the assays, KRT19 has been shown to be both a specific and a non-specific marker. False positivity in such KRT19 RT-PCR studies include: illegitimate transcription (expression of small amounts of KRT19 mRNA by tissues in which it has no real physiological role), haematological disorders (KRT19 induction in peripheral blood cells by cytokines and growth factors, which circulate at higher concentrations in inflammatory conditions and neutropenia), the presence of pseudogenes (two KRT19 pseudogenes, KRT19a and KRT19b, have been identified, which have significant sequence homology to KRT19 mRNA. Moreover, Ck-19 is widely applied as post-operative diagnostic marker of papillary thyroid carcinoma.

Function:

Involved in the organization of myofibers. Together with KRT8, 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. Interacts with PNN and the actin-binding domain of DMD. Interacts with HCV core protein.

**Product
Detail**

Tissue Specificity:

Expressed in a defined zone of basal keratinocytes in the deep outer root sheath of hair follicles. Also observed in sweat gland and mammary gland ductal and secretory cells, bile ducts, gastrointestinal tract, bladder urothelium, oral epithelia, esophagus, ectocervical epithelium (at protein level). Expressed in epidermal basal cells, in nipple epidermis and a defined region of the hair follicle. Also seen in a subset of vascular wall cells in both the veins and artery of human umbilical cord, and in umbilical cord vascular smooth muscle. Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma in structures that contain dystrophin and spectrin.

Similarity:

Belongs to the intermediate filament family.

SWISS:

P08727

Gene ID:

3880

Database links:

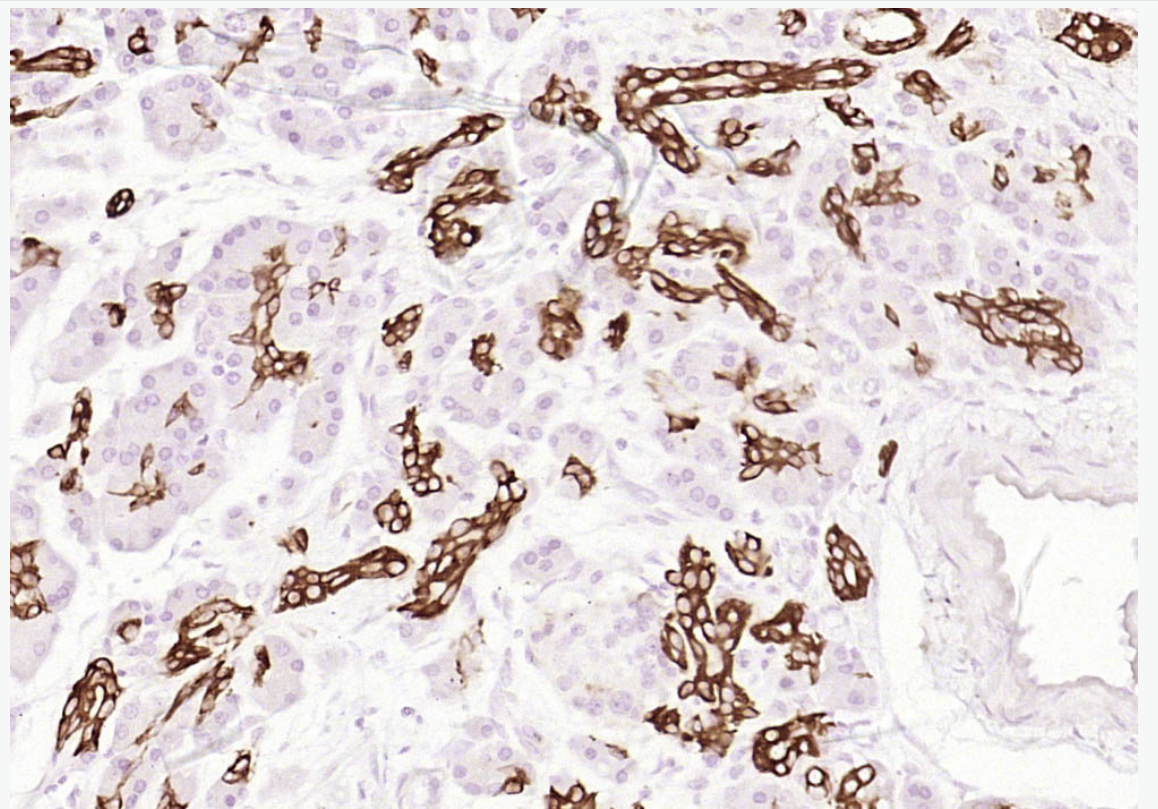
[Entrez Gene: 3880](#) Human

[Omim: 148020](#) Human

[SwissProt: P08727](#) Human

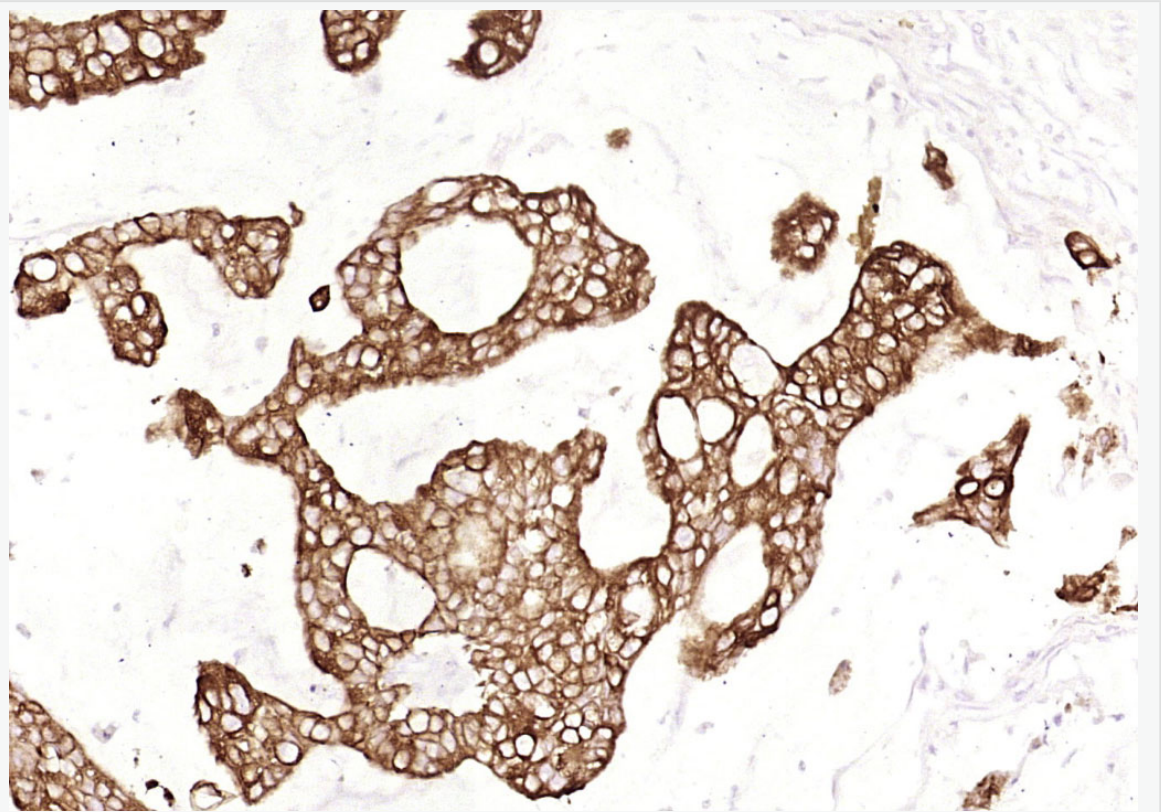
[Unigene: 654568](#) Human

**Product
Picture**

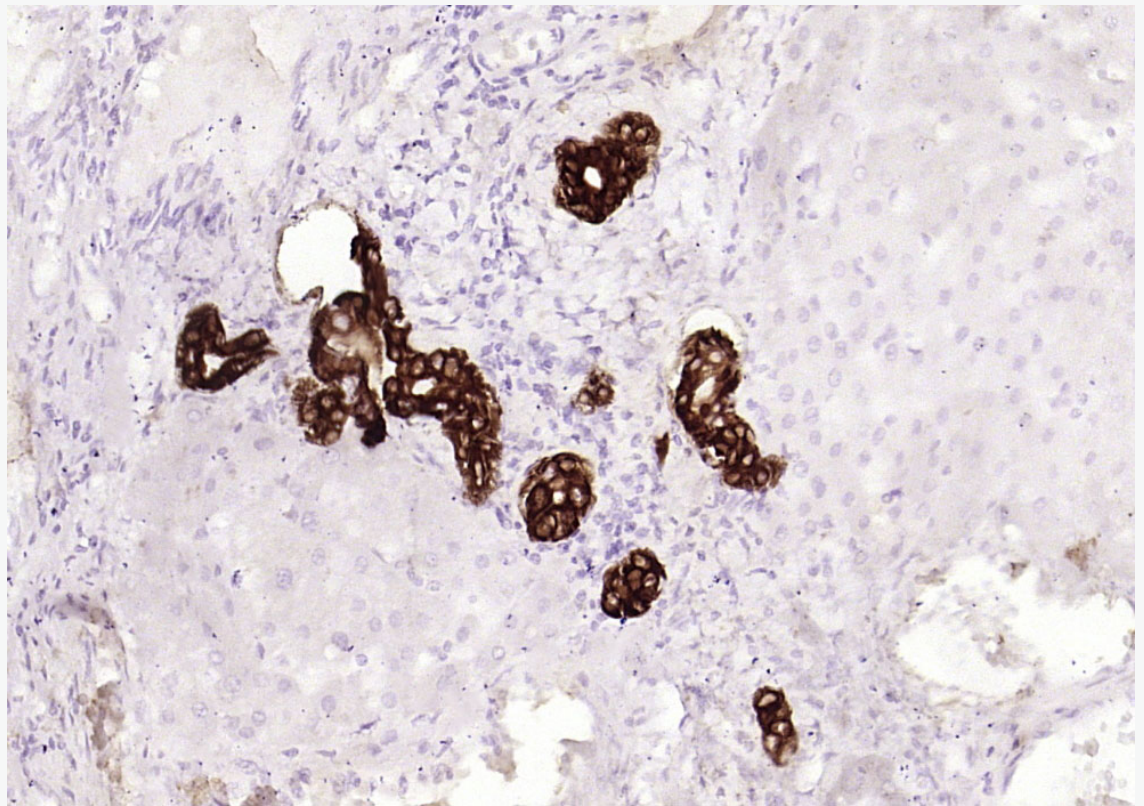


Paraformaldehyde-fixed, paraffin embedded (human pancreatic carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytokeratin 19) Monoclonal

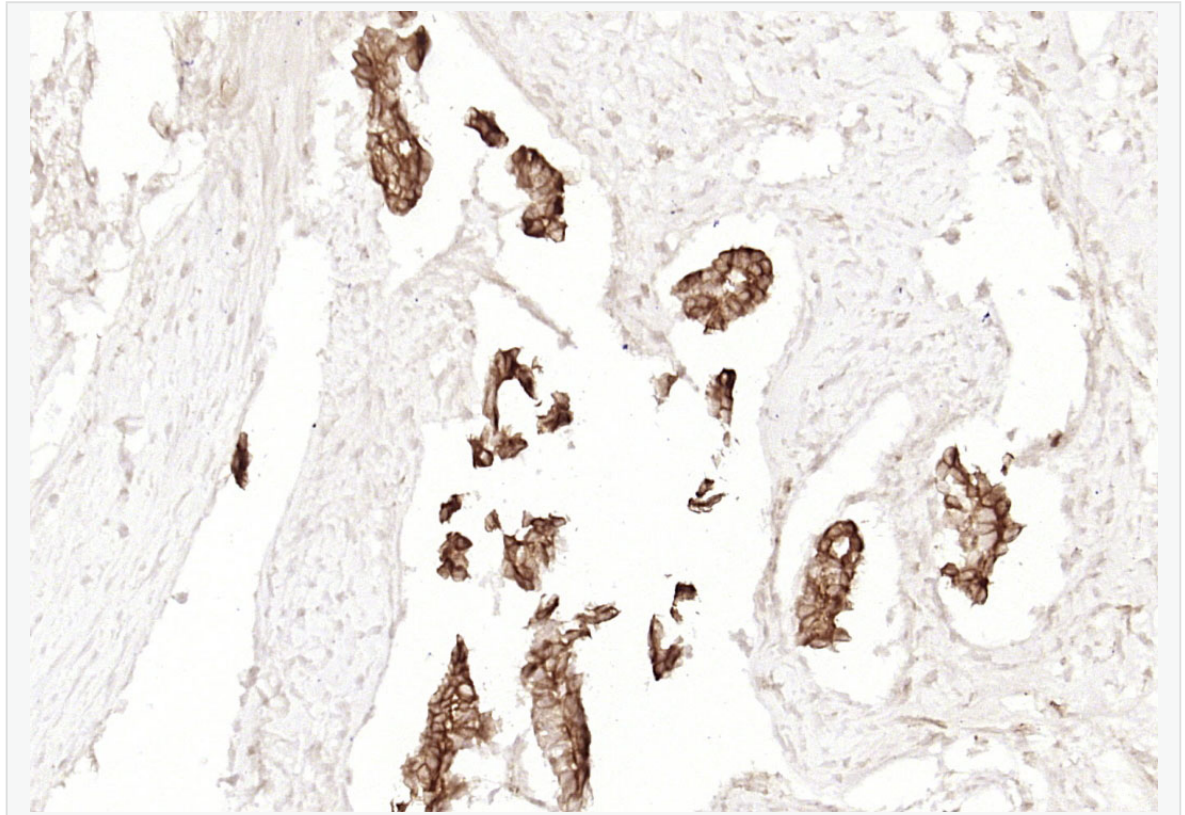
Antibody, Unconjugated (BH0003) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



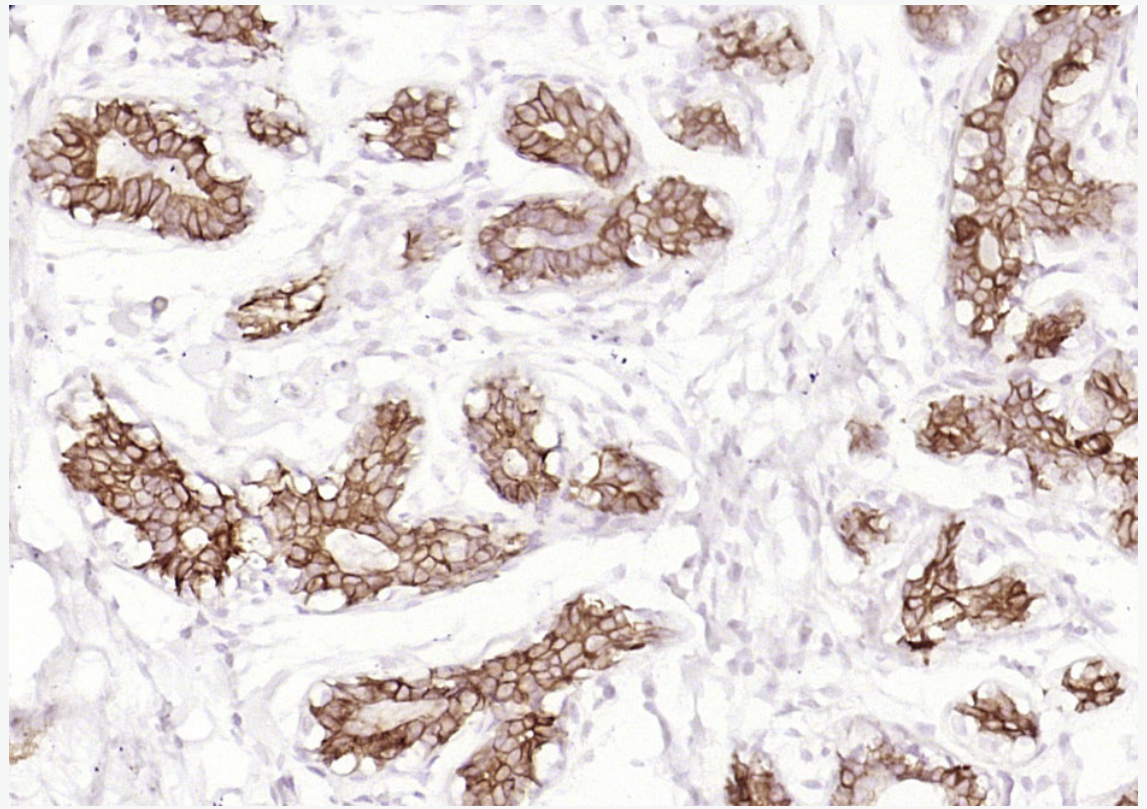
Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytokeratin 19) Monoclonal Antibody, Unconjugated (BH0003) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



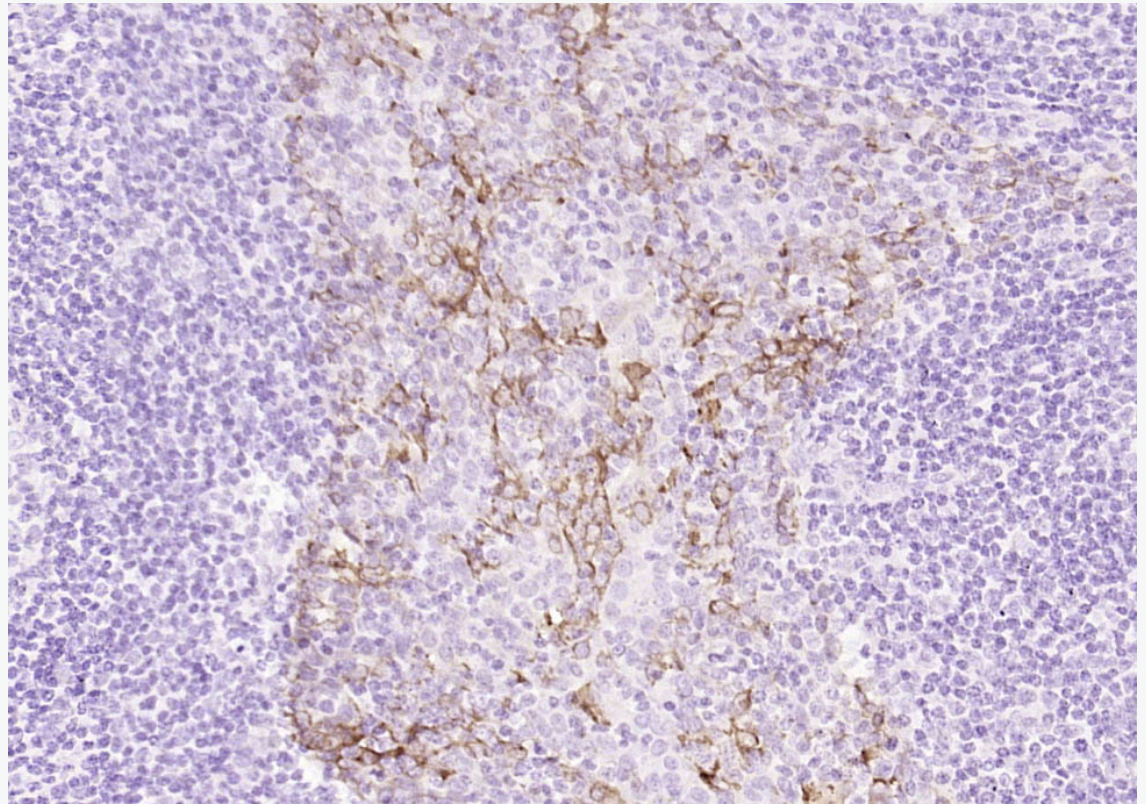
Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytokeratin 19) Monoclonal Antibody, Unconjugated (BH0003) at 1:800 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human gastric 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 (Cytokeratin 19) Monoclonal Antibody, Unconjugated (BH0003) 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 (Human breast); 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 19) Monoclonal Antibody, Unconjugated (BH0003) at 1:800 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human tonsil); 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 19) Monoclonal Antibody, Unconjugated (BH0003) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.