

HA610402



Product Type:	Recombinant Chimeric Antibody, primary antibodies
Species reactivity:	Human
Applications:	IF-Cell, IHC-P
Molecular Wt:	Predicted band size: 54 kDa
Clone number:	SU0338

Description: Keratin, type II cytoskeletal 8 also known as cytokeratin-8 (CK-8) or keratin-8 (K8) is a keratin protein that is encoded in humans by the KRT8 gene. It is often paired with keratin 18. Antibodies to CK8 can be used to differentiate lobular carcinoma of the breast from ductal carcinoma of the breast. In normal tissue, it reacts mainly with secretory epithelia, but not with squamous epithelium, such as that found in the skin, cervix, and esophagus. However, it also reacts with a range of malignant cells, including those derived from secretory epithelia, but also some squamous carcinomata, such as spindle cell carcinoma. It is considered useful in identifying microscopic metastases of breast carcinoma in lymph nodes, and in distinguishing Paget's disease from malignant melanoma. It also reacts with neuroendocrine tumors. Keratin 8 is often used together with keratin 18 and keratin 19 to differentiate cells of epithelial origin from hematopoietic cells in tests that enumerate circulating tumor cells in blood.

Immunogen: Synthetic peptide within Human Cytokeratin 8 aa 321-370 / 483.

Subcellular location: Nucleoplasm, Nucleus matrix, Cytoplasm.

Database links: SwissProt: P05787 Human

Recommended Dilutions:

IF-Cell	1:2,000
IHC-P	1:1,000

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

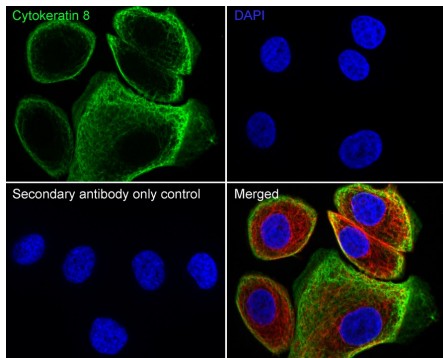


Fig1: Application: Immunocytochemistry (IF-cell)

Species: Human

Sample: SK-Br-3 (Human breast cancer cells)

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA610402, 1/2,000, overnight at 4°C.

Secondary antibody: Goat Anti-Mouse IgG (iFluor™ 488, HA1125), 45 minutes at room temperature.

Counterstain: Beta tubulin (ET1602-4, red), 1/200, overnight at 4°C. The Nuclear counterstain was DAPI (Blue).

Fig2: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Breast cancer

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

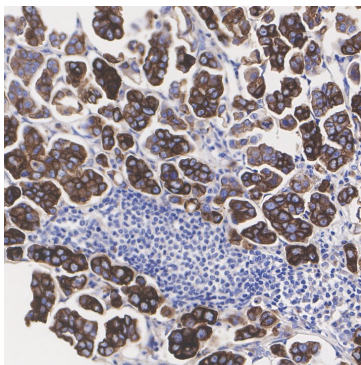
Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA610402, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1120, 20 minutes at room temperature.



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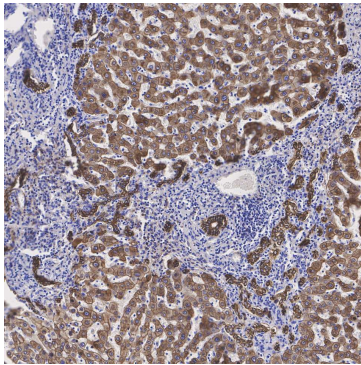


Fig3: Application: Immunohistochemistry (IHC-P)

Species: Human
 Tissue: Liver
 Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST
 Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.
 Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.
 Primary antibody: HA610402, 1/1,000, 1 hour at room temperature.
 Secondary antibody: HA1120, 20 minutes at room temperature.

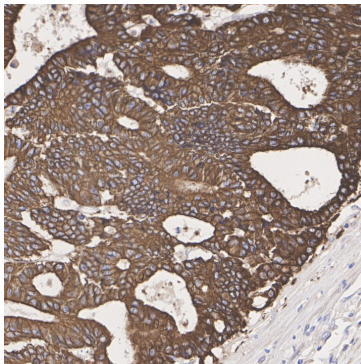


Fig4: Application: Immunohistochemistry (IHC-P)

Species: Human
 Tissue: Colon cancer
 Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST
 Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.
 Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.
 Primary antibody: HA610402, 1/1,000, 1 hour at room temperature.
 Secondary antibody: HA1120, 20 minutes at room temperature.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Ruiz A et al. Effect of hydroxychloroquine and characterization of autophagy in a mouse model of endometriosis. Cell Death Dis 7:e2059 (2016).
2. Xiao, L. et al. Three-dimensional epithelial and mesenchymal cell co-cultures form early tooth epithelium invagination-like structures: expression patterns of relevant molecules. J. Cell. Biochem. 113: 1875-1885(2012).

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