

**Cytokeratin 18 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1227a****Specification**

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**Cytokeratin 18 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">P05783</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG2b</b>
Calculated MW	<b>48kDa KDa</b>

**Description**

Cytokeratin 18, also known as CK18, CYK18, KRT18. Entrez Protein NP\_000215. It encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene.

**Immunogen**

Purified recombinant fragment of human Cytokeratin 18 (aa391-483) expressed in E. Coli. <br />

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**Cytokeratin 18 Antibody - Additional Information**

**Gene ID** 3875

**Other Names**

Keratin, type I cytoskeletal 18, Cell proliferation-inducing gene 46 protein, Cytokeratin-18, CK-18, Keratin-18, K18, KRT18, CYK18

**Dilution**

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Cytokeratin 18 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Cytokeratin 18 Antibody - Protein Information**

**Name** KRT18

**Synonyms** CYK18

**Function**

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

**Cellular Location**

Nucleus matrix {ECO:0000250|UniProtKB:Q5BJY9}. Cytoplasm, perinuclear region. Nucleus, nucleolus. Cytoplasm {ECO:0000250|UniProtKB:Q5BJY9}

**Tissue Location**

Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.

**Cytokeratin 18 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Cytokeratin 18 Antibody - Images**

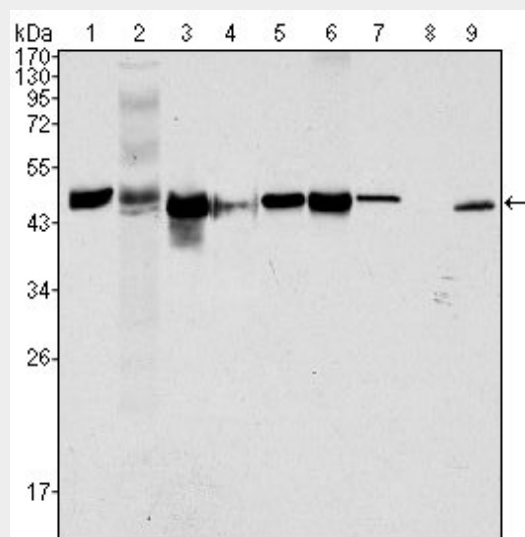


Figure 1: Western blot analysis using CK18 mouse mAb against Hela (1), NIH/3T3 (2), A549 (3), Jurkat (4), MCF-7(5), HepG2 (6), A431 (7), HEK293 (8) and K562 (9) cell lysate.

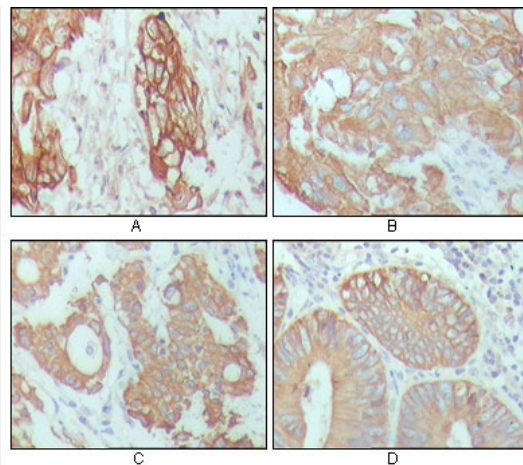


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma (A), hepatocarcinoma (B), stomach cancer (C) and colon cancer tissue (D), showing cytoplasmic location with DAB staining using CK18 mouse mAb.

#### **Cytokeratin 18 Antibody - References**

1. Cancer Genet Cytogenet. 2007 Oct 15;178(2):94-103.
2. J Mol Histol. 2008 Apr;39(2):209-16.