

# Anti-Cytokeratin 18 Mouse mAb

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AP53488

## Product Information

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<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">P05783</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	Mouse IgG2b
<b>Immunogen</b>	Purified recombinant fragment of human Cytokeratin 18 (aa391-483) expressed in E. Coli.
<b>Purification</b>	Acites
<b>Calculated MW</b>	48058
<b>Antigen Region</b>	aa391-483

## Additional Information

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<b>Gene ID</b>	3875
<b>Other Names</b>	CK18; CYK18; KRT18
<b>Dilution</b>	WB~~1:1000 IHC~~1:400
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	KRT18 ( <a href="#">HGNC:6430</a> )
<b>Synonyms</b>	CYK18
<b>Function</b>	Required for the formation of KRT8/KRT18 filaments that are involved in ARHGEF40-mediated actin stress fiber formation and tensional force-induced stress fiber formation and reinforcement (PubMed: <a href="#">26823019</a> ). Also acts downstream of ROCK kinase activation as part of a positive feedback mechanism in response to cellular mechanical stress loading (PubMed: <a href="#">26823019</a> ). Organization and orientation of KRT18 filaments are responsible for the properly elongated morphology of epithelial tubules (By similarity). 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.

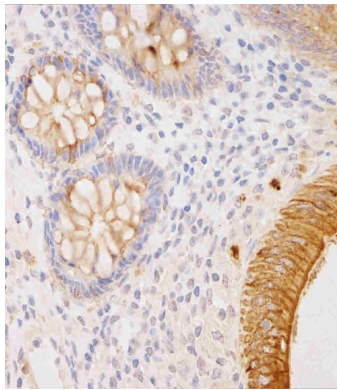
**Background**

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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.

**Images**

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Immunohistochemical analysis of KRT18 in Human appendix tissue sections(IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9.0). Samples were incubated with primary antibody (1/400) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

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