10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Cytokeratin 18 Mouse mAb
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP53488

Specification

Anti-Cytokeratin 18 Mouse mAb - Product Information

Application	**WB, IHC**
Primary Accession	P05783
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2b**
Immunogen	**Purified recombinant fragment of human Cytokeratin 18 (aa391-483) expressed in E. Coli.**
Purification	**Acites**
Calculated MW	**48kDa KDa**
Antigen Region	**aa391-483**

Anti-Cytokeratin 18 Mouse mAb - Additional Information

Gene ID 3875

Other Names
CK18; CYK18; KRT18

Dilution
WB~~1:1000
IHC~~1:400

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Storage
Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Anti-Cytokeratin 18 Mouse mAb - Protein Information

Name KRT18 (HGNC:6430)

Synonyms CYK18

Function
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:26823019). Also acts downstream of ROCK kinase activation as part of a positive feedback mechanism in response to cellular mechanical stress loading (PubMed:<a

href="http://www.uniprot.org/citations/26823019" target="_blank">26823019). 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}

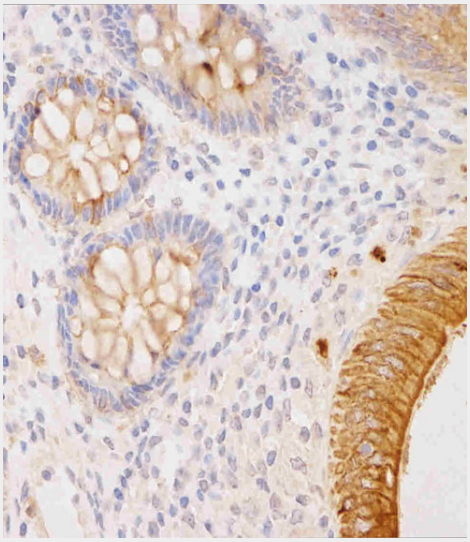
Tissue Location
Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.

Anti-Cytokeratin 18 Mouse mAb - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Cytokeratin 18 Mouse mAb - Images



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.

Anti-Cytokeratin 18 Mouse mAb - Background

10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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.