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Cytokeratin 18 Antibody

Rabbit mAb
Catalog # AP90758

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	P05783
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	type I cytoskeletal 18; Cell proliferation-inducing gene 46 protein; Cytokeratin-18; Keratin-18; KRT18; CYK18; PIG46; KRT 18; CK18; Keratin 18;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	48058

Additional Information

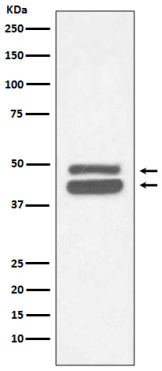
Dilution	WB 1:500~1:2000 IHC 1:100~1:500 ICC/IF 1:50~1:200 FC 1:60
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Cytokeratin 18
Description	Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	KRT18 (HGNC:6430)
Synonyms	CYK18
Function	Structural component of intermediate filaments in simple epithelial cells. Forms intermediate filaments by heterodimerizing with the type II keratin KRT8, providing mechanical stability and resilience to epithelial cells (PubMed:15529338, PubMed:26823019). Involved in ARHGEF40-mediated actin stress fiber formation and tensional force- induced stress fiber formation and reinforcement (PubMed:26823019). Integrates into the intermediate filament network of skeletal muscle fibers alongside desmin and KRT19, contributing to force transmission (By similarity). Organization and orientation of KRT8/KRT18 filaments are responsible for the properly elongated morphology of epithelial tubules (By similarity). Also acts downstream of ROCK kinase activation as part of a positive feedback mechanism in response to cellular mechanical stress loading (PubMed:26823019). Involved in the uptake of thrombin-antithrombin

	complexes by hepatic cells (By similarity). When phosphorylated, plays a role in filament reorganization (PubMed:7523419, PubMed:8522591, PubMed:9298992, PubMed:9524113). Involved in the delivery of mutated CFTR to the plasma membrane (PubMed:15529338, PubMed:16424149). Involved in interleukin-6 (IL-6)- mediated barrier protection (PubMed:17213200).
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.

Images



Western blot analysis of Cytokeratin 18 expression in HeLa cell lysate.

Image not found : 202311/AP90758-IHC.jpg

Immunohistochemical analysis of paraffin-embedded mouse liver, using Cytokeratin 18 Antibody.

Image not found : 202311/AP90758-IF.jpg

Immunofluorescent analysis of pc-12 cells, using Cytokeratin 18 Antibody.

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