

phospho-CK18 (Ser52) Rabbit pAb

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Catalog # AP94757

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P05784
Reactivity	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47538
Physical State	Liquid
Immunogen	KLH conjugated synthesised phosphopeptide derived from mouse CK18 around the phosphorylation site of Ser52
Epitope Specificity	SR(p-S)VW
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm, perinuclear region. Nucleus, nucleolus.
DISEASE	Defects in KRT18 are a cause of cirrhosis (CIRRH) [MIM:215600].
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	KRT18 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. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	16668
Other Names	Keratin, type I cytoskeletal 18, Cytokeratin endo B, Keratin D, Cytokeratin-18, K18, Krt18 {ECO:0000312 MGI:MGI:96692}, Kerd, Krt1-18
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

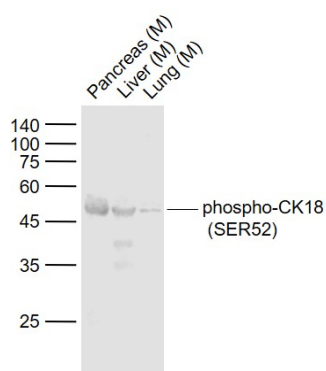
Protein Information

Name	Krt18 {ECO:0000312 MGI:MGI:96692}
Synonyms	Kerd, Krt1-18
Function	Structural component of intermediate filaments in simple epithelial cells. Forms obligate heteropolymers with a type II keratin KRT8, mechanical stability and resilience to epithelial cells (PubMed: 1691189). KRT8/KRT18 filaments are involved in ARHGEF40- mediated actin stress fiber formation and tensional force-induced stress fiber formation and reinforcement (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 (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 (By similarity). Involved in interleukin-6 (IL-6)-mediated barrier protection (PubMed: 17213200).
Cellular Location	Nucleus matrix {ECO:0000250 UniProtKB:Q5BJY9}. Cytoplasm, perinuclear region {ECO:0000250 UniProtKB:P05783}. Nucleus, nucleolus {ECO:0000250 UniProtKB:P05783}. Cytoplasm {ECO:0000250 UniProtKB:Q5BJY9}
Tissue Location	Expressed in endoderm, intestinal epithelial cells and in most extraembryonic tissues.

Background

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Images



Sample:

Lane 1: Pancreas (Mouse) Lysate at 40 ug

Lane 2: Liver (Mouse) Lysate at 40 ug

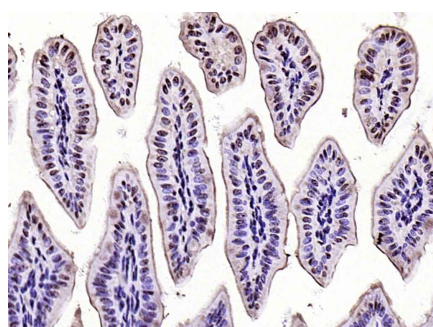
Lane 3: Lung (Mouse) Lysate at 40 ug

Primary: Anti- phospho-CK18 (SER52) (AP94757) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 48 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse small intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-CK18 (Ser52)) Polyclonal Antibody, Unconjugated (AP94757) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.