

# phospho-CK18 (Ser52) Rabbit pAb

phospho-CK18 (Ser52) Rabbit pAb

Catalog # AP94757

## Product Information

---

<b>Application</b>	WB, IHC-P, IHC-F, IF
<b>Primary Accession</b>	<a href="#">P05784</a>
<b>Reactivity</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	47538
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthesised phosphopeptide derived from mouse CK18 around the phosphorylation site of Ser52
<b>Epitope Specificity</b>	SR(p-S)VW
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Cytoplasm, perinuclear region. Nucleus, nucleolus.
<b>SIMILARITY</b>	Belongs to the intermediate filament family.
<b>SUBUNIT</b>	Heterotetramer of two type I and two type II keratins. KRT18 associates with KRT8. Interacts with the thrombin-antithrombin complex (By similarity). Interacts with PNN, HCV core protein and mutated CFTR. Interacts with YWHAЕ, YWHAH and YWHAZ only when phosphorylated. Interacts with DNAJB6, TCHP and TRADD.
<b>Post-translational modifications</b>	Phosphorylation at Ser-34 increases during mitosis. Hyperphosphorylated at Ser-53 in diseased cirrhosis liver. Phosphorylation increases by IL-6. Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-238 by either caspase-3, caspase-6 or caspase-7. O-GlcNAcylation increases solubility, and decreases stability by inducing proteasomal degradation.
<b>DISEASE</b>	Defects in KRT18 are a cause of cirrhosis (CIRRH) [MIM:215600].
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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

---

<b>Gene ID</b>	16668
<b>Other Names</b>	Keratin, type I cytoskeletal 18, Cytokeratin endo B, Keratin D, Cytokeratin-18,

CK-18, Keratin-18, K18, Krt18, Kerd, Krt1-18

<b>Target/Specificity</b>	Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glycerol
<b>Storage</b>	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.

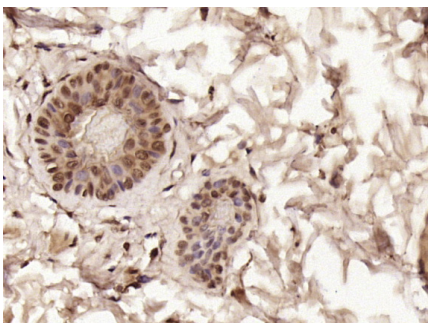
## Protein Information

<b>Name</b>	Krt18
<b>Synonyms</b>	Kerd, Krt1-18
<b>Function</b>	When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. 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.
<b>Cellular Location</b>	Nucleus matrix {ECO:0000250 UniProtKB:Q5BJY9}. Cytoplasm, perinuclear region {ECO:0000250 UniProtKB:P05783}. Nucleus, nucleolus {ECO:0000250 UniProtKB:P05783}. Cytoplasm {ECO:0000250 UniProtKB:Q5BJY9}
<b>Tissue Location</b>	Expressed in endoderm, intestinal epithelial cells and in most extraembryonic tissues.

## Background

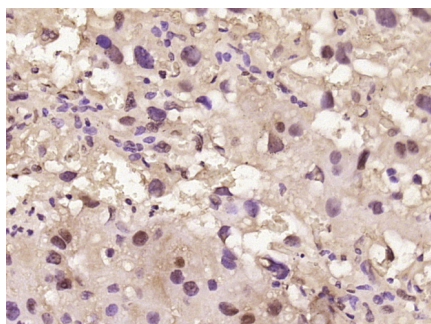
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

## Images

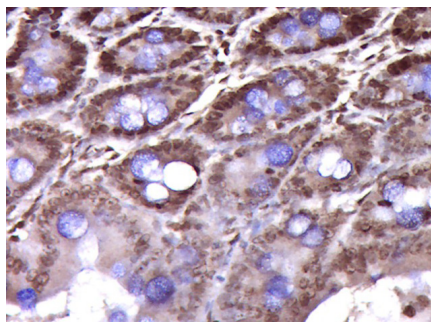


Paraformaldehyde-fixed, paraffin embedded (Rat skin); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-CK18(Ser52)) Polyclonal Antibody, Unconjugated (AP94757) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

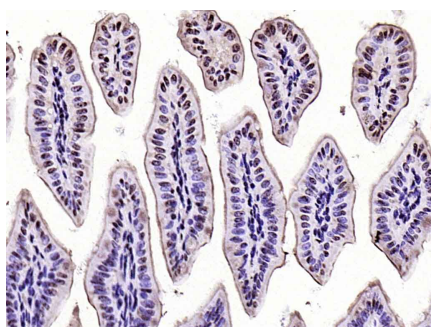
Paraformaldehyde-fixed, paraffin embedded (Mouse placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody



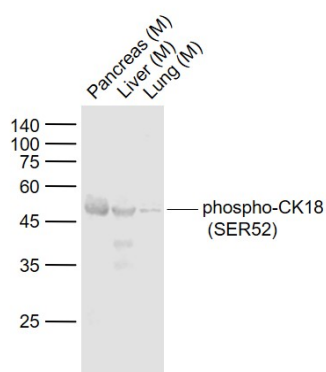
incubation with (phospho-CK18(Ser52)) Polyclonal Antibody, Unconjugated (AP94757) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



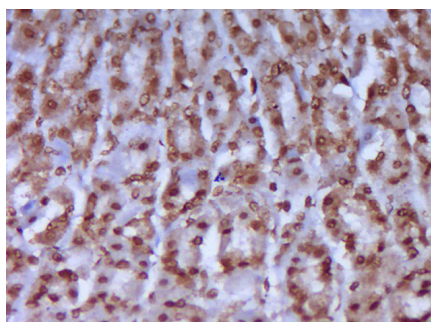
Paraformaldehyde-fixed, paraffin embedded (Rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (p-CK18(Ser52)) Polyclonal Antibody, Unconjugated (AP94757) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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.



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 (Rat stomach); 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 (p-CK18(Ser52)) Polyclonal Antibody, Unconjugated (AP94757) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.