

## Rabbit Anti-phospho-CK18 (Ser52)/PE Conjugated antibody

SL12921R-PE

<b>Product Name</b>	Anti-phospho-CK18(Ser52)/PE
<b>Chinese Name</b>	PE 标记的磷酸化细胞角蛋白 18 抗体
<b>Alias</b>	Cytokeratin 18 (phospho S52); p-Cytokeratin 18 (phospho S52); Cell proliferation inducing gene 46 protein; Cell proliferation inducing protein 46; Cell proliferation-inducing gene 46 protein; CK 18; CK-18; CK18; CYK 18; CYK18; Cytokeratin 18; Cytokeratin endo B; Cytokeratin-18; Cytokeratin18; K 18; K18; K1C18_HUMAN; Keratin 18; Keratin D; Keratin type I cytoskeletal 18; keratin, type I cytoskeletal 18; Keratin-18; Keratin18; Kerd; KRT18.
<b>Product Type</b>	Phosphorylated anti
<b>Research Area</b>	Tumour Cell biology
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Mouse,Rat IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	48kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthesised phosphopeptide derived from mouse CK18 around the phosphorylation site of Ser52 [SR(p-S)VW]
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks

at 2-4 °C.

**background:**

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].

**Function:**

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.

**Subunit:**

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.

**Product Detail**

**Subcellular Location:**

Cytoplasm, perinuclear region. Nucleus, nucleolus.

**Tissue Specificity:**

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

**Post-translational modifications:**

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.

**DISEASE:**

Defects in KRT18 are a cause of cirrhosis (CIRRH) [MIM:215600].

**Similarity:**

Belongs to the intermediate filament family.

**Database links:**



[Entrez Gene: 506480](#) Cow

[Entrez Gene: 3875](#) Human

[Entrez Gene: 16668](#) Mouse

[Entrez Gene: 294853](#) Rat

[Omim: 148070](#) Human

[SwissProt: P05783](#) Human

[SwissProt: P05784](#) Mouse

[SwissProt: Q5BJY9](#) Rat

[Unigene: 406013](#) Human

[Unigene: 22479](#) Mouse

[Unigene: 103924](#) Rat

**Important Note:**

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