

# Cytokeratin 18 (Phospho Ser52) Rabbit pAb

CatalogNo: YP0547

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IHC, IF, ELISA

### MW

- 48kD (Observed)

### Isotype

- IgG

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

## Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**IF 1:200-1:1000**

**ELISA 1:10000**

**Not yet tested in other applications.**

## Basic Information

**Clonality** Polyclonal

## Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human Keratin 18 around the phosphorylation site of Ser52. AA range:21-70

## Specificity

Phospho-Cytokeratin 18 (S52) Polyclonal Antibody detects endogenous levels of Cytokeratin 18 protein only when phosphorylated at S52. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):STsFR

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## Target Information

**Gene name** KRT18

**Protein Name** Keratin type I cytoskeletal 18

Organism	Gene ID	UniProt ID
Human	<a href="#">3875</a> ;	<a href="#">P05783</a> ;
Mouse	<a href="#">16668</a> ;	<a href="#">P05784</a> ;
Rat	<a href="#">294853</a> ;	<a href="#">Q5BJY9</a> ;

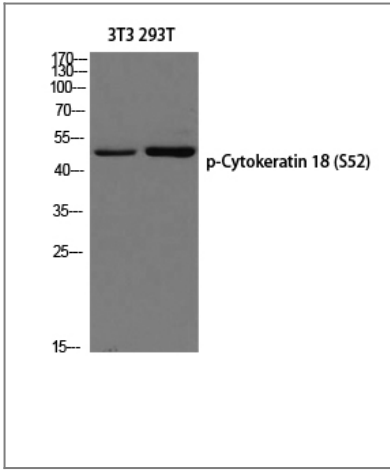
**Cellular Localization** Cytoplasm , perinuclear region. Nucleus , nucleolus.

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

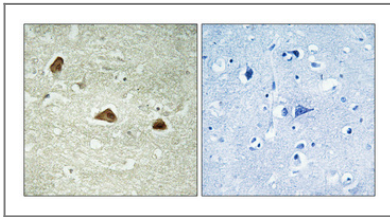
**Function** Disease:Defects in KRT18 are a cause of cryptogenic cirrhosis [MIM:215600]. ,Function:Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity) . When phosphorylated , plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Together with KRT8 , is involved in interleukin-6 (IL-6) -mediated barrier protection. ,induction:By IL-6. ,miscellaneous:There are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa) . ,PTM:O-glycosylated at multiple sites; glycans consist of single N-acetylglucosamine residues. ,PTM:Phosphorylation at Ser-34 increases during mitosis. Hyperphosphorylated at Ser-53 in diseased cirrhosis liver. Phosphorylation increases by IL-6. ,PTM:Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-238 by either caspase-3 , caspase-6 or caspase-7. ,similarity:Belongs to the intermediate filament family. ,subunit:Heterotetramer of two type I and two type II keratins. Keratin-18 associates with keratin-8. Interacts with the thrombin-antithrombin complex (By similarity) . Interacts with PNN , HCV core protein and mutated CFTR. Interacts with YWHAE , YWHAH and YWHAZ only when phosphorylated. Interacts with DNAJB6 , TCHP and TRADD. ,tissue specificity:Expressed in colon , placenta , liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma. ,

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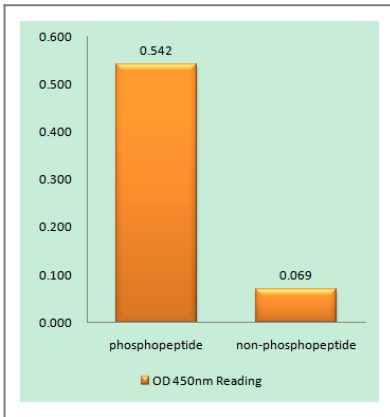
## Validation Data



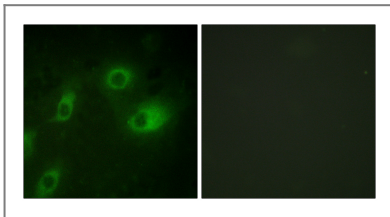
Western blot analysis of 3T3 293T using p-Cytokeratin 18 (S52) antibody. Antibody was diluted at 1:500



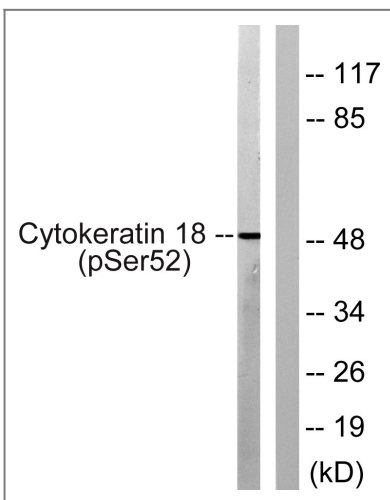
Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°C overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Keratin 18 (Phospho-Ser52) Antibody



Immunofluorescence analysis of HeLa cells, using Keratin 18 (Phospho-Ser52) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells, using Keratin 18 (Phospho-Ser52) Antibody. The lane on the right is blocked with the phospho peptide.

## | Contact information

Orders: order.cn@immunoway.com  
Support: support.cn@immunoway.com  
Telephone: 400-8787-807(China)  
Website: <http://www.immunoway.com.cn>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code  
to access additional  
product information:  
**Cytokeratin 18**  
**(Phospho Ser52)**  
**Rabbit pAb**

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