

## p70 S6 kinase $\alpha$ (Phospho Ser418) Rabbit pAb

CatalogNo: YP0886

Orthogonal Validated 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 60kD (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 1:20000

Not yet tested in other applications.

### Basic Information

#### Clonality

Polyclonal

### Immunogen Information

#### Immunogen

The antiserum was produced against synthesized peptide derived from human p70 S6 Kinase around the phosphorylation site of Ser418. AA range: 384-433

## Specificity

Phospho-p70 S6 kinase  $\alpha$  (S418) Polyclonal Antibody detects endogenous levels of p70 S6 kinase  $\alpha$  protein only when phosphorylated at S418. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):IGsPR

## Target Information

**Gene name** RPS6KB1 STK14A P70S6K

**Protein Name** Ribosomal protein S6 kinase beta-1

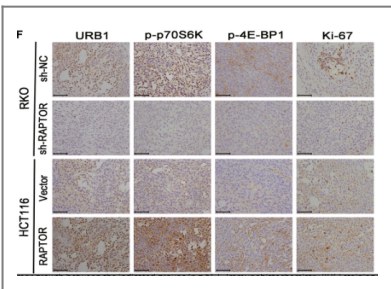
| Organism | Gene ID                 | UniProt ID               |
|----------|-------------------------|--------------------------|
| Human    | <a href="#">6198</a> ;  | <a href="#">P23443</a> ; |
| Mouse    | <a href="#">72508</a> ; | <a href="#">Q8BSK8</a> ; |
| Rat      | <a href="#">83840</a> ; | <a href="#">P67999</a> ; |

**Cellular Localization** Cell junction, synapse, synaptosome . Mitochondrion outer membrane. Mitochondrion. Colocalizes with URB1 at mitochondrion.; [Isoform Alpha I]: Nucleus. Cytoplasm.; [Isoform Alpha II]: Cytoplasm.

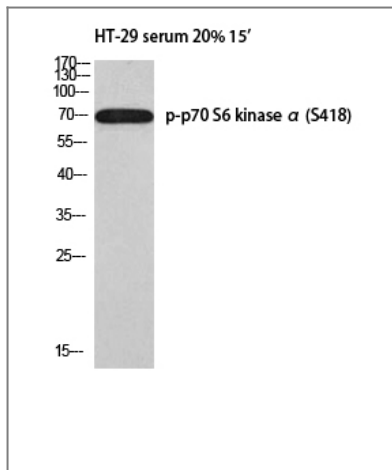
**Tissue specificity** Widely expressed.

**Function** Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Activation by serine/threonine phosphorylation and protein kinase C, inactivated by type 2A phosphatase.,Function:Phosphorylates specifically ribosomal protein S6 in response to insulin or several classes of mitogens.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with PPP1R9A/neurabin-1.,tissue specificity:Widely expressed.,

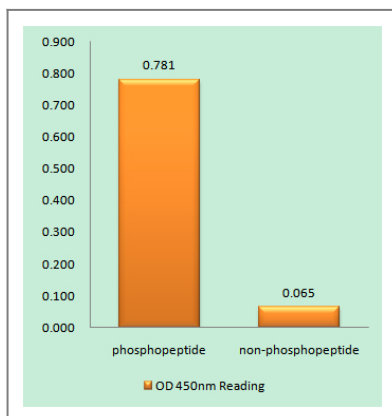
## Validation Data



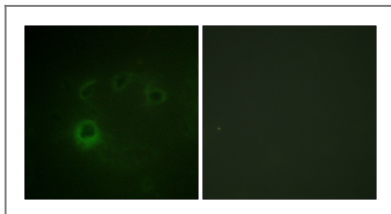
Wang, Tao, et al. "RAPTOR promotes colorectal cancer proliferation by inducing mTORC1 and upregulating ribosome assembly factor URB1." Cancer medicine 9.4 (2020): 1529-1543.



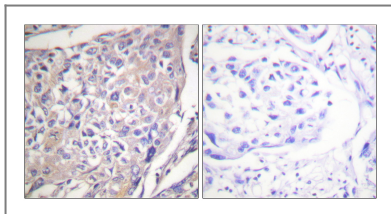
Western blot analysis of HT-29 serum 20% 15' using p-p70 S6 kinase  $\alpha$  (S418) antibody. Antibody was diluted at 1:1000



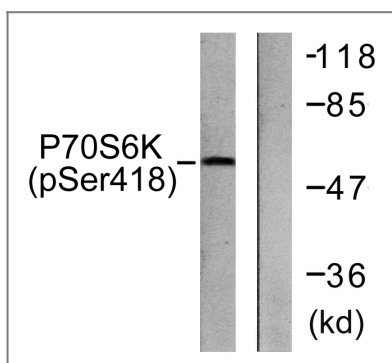
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using p70 S6 Kinase (Phospho-Ser418) Antibody



Immunofluorescence analysis of COS7 cells, using p70 S6 Kinase (Phospho-Ser418) Antibody. The picture on the right is blocked with the phosphopeptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using p70 S6 Kinase (Phospho-Ser418) Antibody. The picture on the right is blocked with the phosphopeptide.



Western blot analysis of lysates from HT29 cells treated with serum 20% 15', using p70 S6 Kinase (Phospho-Ser418) Antibody. The lane on the right is blocked with the phosphopeptide.

Orders: order@immunoway.com  
Support: tech@immunoway.com  
Telephone: 877-594-3616 (Toll Free), 408-747-0185  
Website: http://www.immunoway.com  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code  
to access additional  
product information:  
**p70 S6 kinase  $\alpha$**   
**(Phospho Ser418)**  
**Rabbit pAb**

---

For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)