

## p70 S6 kinase $\alpha$ (Phospho Thr412) Rabbit pAb

CatalogNo: YP0885 **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 1:10000**

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 Thr412. AA range:355-450

## Specificity

Phospho-p70 S6 kinase  $\alpha$  (T412) Polyclonal Antibody detects endogenous levels of p70 S6 kinase  $\alpha$  protein only when phosphorylated at T412. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):GFtYV

## 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

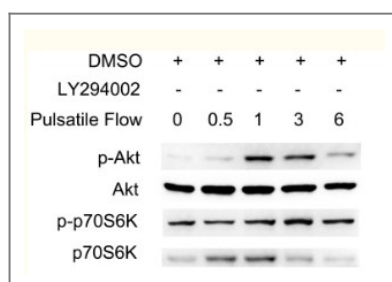
Cell junction, synapse, synaptosome . Mitochondrion outer membrane. Mitochondrion. Colocalizes with URI1 at mitochondrion.; [Isoform Alpha I]: Nucleus. Cytoplasm.; [Isoform Alpha II]: Cytoplasm.

**Tissue specificity** Widely expressed.

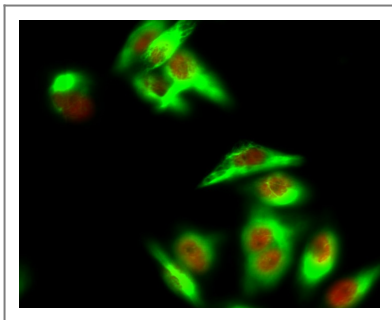
### Function

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.,

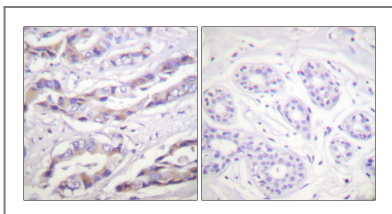
## Validation Data



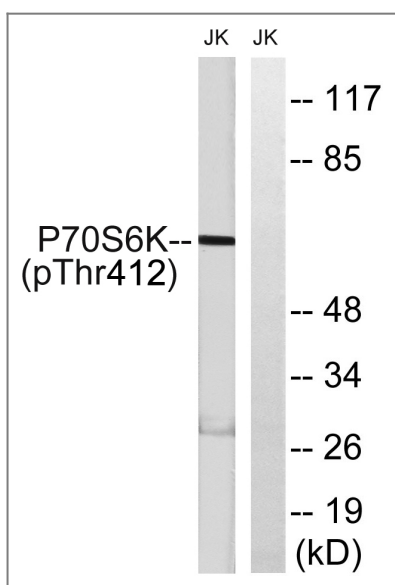
Ge, Cheng, et al. "Atheroprotective Pulsatile Flow Induces Ubiquitin-Proteasome-Mediated Degradation of Programmed Cell Death 4 in Endothelial Cells." PloS one 9.3 (2014): e91564.



Immunofluorescence analysis of HeLa cell. 1, mouse Histone H3 Antibody YM3808 (red) was diluted at 1:200(4° overnight). p70 S6 kinase  $\alpha$  (Phospho Thr412) Rabbit pAb (green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 594 Catalog:RS3608 was diluted at 1:1000(room temperature, 50min).



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using p70 S6 Kinase (Phospho-Thr389) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with Insulin 0.01U/ml 15', using p70 S6 Kinase (Phospho-Thr389) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code to access additional product information:  
**p70 S6 kinase  $\alpha$**   
**(Phospho Thr412)**  
**Rabbit pAb**