

# TAK1 (Phospho Ser412) Rabbit pAb

CatalogNo: YP1522

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB

### MW

- 70kD (Observed)

### Isotype

- IgG

## Recommended Dilution Ratios

WB 1:1000-2000

## 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.

## Basic Information

**Clonality** Polyclonal

## Immunogen Information

**Immunogen** Synthesized phospho peptide around human TAK1 (Ser412)

**Specificity** This antibody detects endogenous levels of Human Mouse Rat TAK1 (phospho-Ser412)

## Target Information

**Gene name** MAP3K7 TAK1

**Protein Name**

TAK1 (Ser412)

**Organism****Gene ID****UniProt ID**

Human

[6885;](#)[O43318;](#)

Mouse

[26409;](#)[Q62073;](#)

Rat

[313121;](#)[P0C8E4;](#)**Cellular Localization**

Cytoplasm . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Although the majority of MAP3K7/TAK1 is found in the cytosol, when complexed with TAB1/MAP3K7IP1 and TAB2/MAP3K7IP2, it is also localized at the cell membrane.

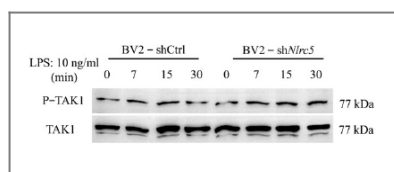
**Tissue specificity**

Isoform 1A is the most abundant in ovary, skeletal muscle, spleen and blood mononuclear cells. Isoform 1B is highly expressed in brain, kidney and small intestine. Isoform 1C is the major form in prostate. Isoform 1D is the less abundant form.

**Function**

Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,Function:Component of a protein kinase signal transduction cascade. Mediator of TGF-beta signal transduction. Stimulates NF-kappa-B activation and the p38 MAPK pathway.,PTM:Association with MAP3K7IP1 promotes autophosphorylation and subsequent activation. Dephosphorylation at Thr-187 by PP2A and PPP6C leads to inactivation.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Binds both upstream activators and downstream substrates in multimolecular complexes. Interacts with MAP3K7IP1 and MAP3K7IP2. Interacts with PPM1L. Interaction with PP2A and PPP6C leads to its' repressed activity.,

## Validation Data



NLRC5 Deficiency Reduces LPS-Induced Microglial Activation via Inhibition of NF-κB Signaling and Ameliorates Mice's Depressive-like Behavior.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Jianqiong Zhang WB  
Mouse 1:500 BV2 cell

## Contact information

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