

Tak1 (Phospho Ser412) Rabbit pAb

CatalogNo: YP1522

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 70kD (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 1:1000-2000

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**

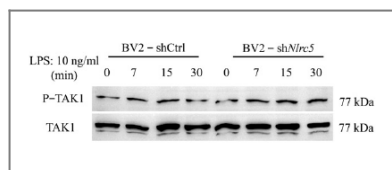
Cytoplasm . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Although the majority of MAP3K7/TAK1 is found in the cytosol , when complexed with TAB1/MAP3K7IP1 and TAB2/MAP3K7IP2 , it is also localized at the cell membrane.

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

NLR5 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

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