

Tak1 (Phospho Ser439) Rabbit pAb

CatalogNo: YP0787 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 77kD (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

ELISA 1:5000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human MAP3K7 around the phosphorylation site of Ser439. AA range:411-460

Specificity

Phospho-Tak1 (S439) Polyclonal Antibody detects endogenous levels of Tak1 protein only when phosphorylated at S439. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):RRSIQ

Target Information

Gene name MAP3K7

Protein Name Mitogen-activated protein kinase kinase kinase 7

Organism	Gene ID	UniProt ID
Human	6885 ;	O43318 ;
Mouse	26409 ;	Q62073 ;
Rat	313121 ;	POC8E4 ;

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.

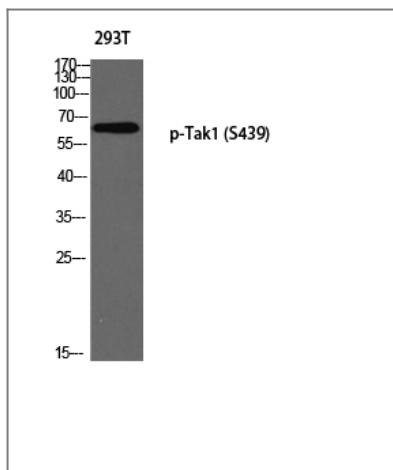
Tissue specificity

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.

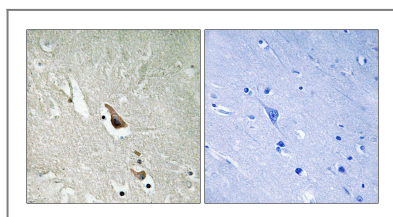
Function

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. ,

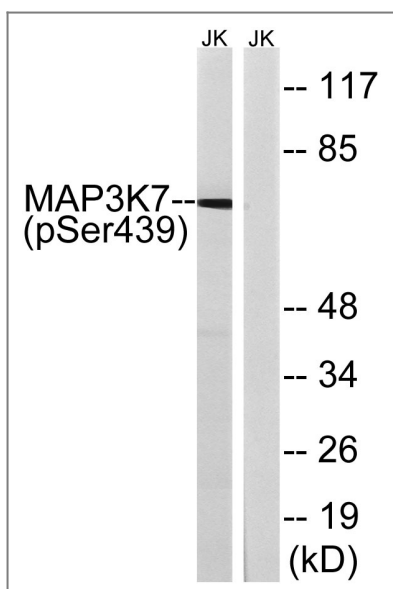
Validation Data



Western blot analysis of 293T using p-Tak1 (S439) antibody. Antibody was diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human brain, using MAP3K7 (Phospho-Ser439) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with PMA 125ng/ml 30', using MAP3K7 (Phospho-Ser439) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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