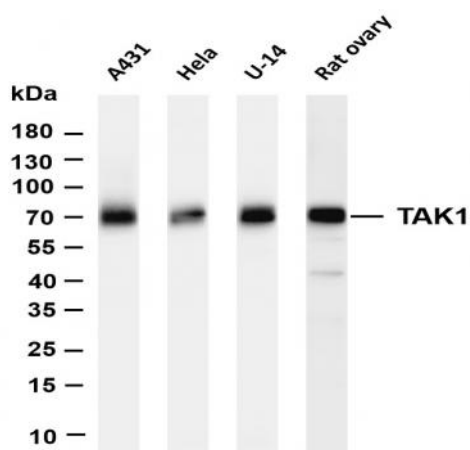# TAK1 (PT0396R) PT® Rabbit mAb

Catalog No : YM8242

Reactivity : Human; Mouse; Rat;

Applications : WB;IF;IP;ELISA

Target : Tak1

Fields : >>MAPK signaling pathway;>>NF-kappa B signaling pathway;>>Autophagy - animal;>>AMPK signaling pathway;>>Wnt signaling pathway;>>Osteoclast differentiation;>>Adherens junction;>>Neutrophil extracellular trap formation;>>Toll-like receptor signaling pathway;>>NOD-like receptor signaling pathway;>>RIG-I-like receptor signaling pathway;>>IL-17 signaling pathway;>>T cell receptor signaling pathway;>>TNF signaling pathway;>>Alcoholic liver disease;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Salmonella infection;>>Yersinia infection;>>Leishmaniasis;>>Toxoplasmosis;>>Hepatitis B;>>Measles;>>Herpes simplex virus 1 infection;>>Epstein-Barr virus infection;>>Human immunodeficiency virus 1 infection;>>Coronavirus disease - COVID-19;>>Lipid and atherosclerosis;>>Fluid shear stress and atherosclerosis

Gene Name : MAP3K7

Protein Name : Mitogen-activated protein kinase kinase kinase 7

Human Gene Id : 6885

Human Swiss Prot No : O43318

Mouse Gene Id : 26409

Mouse Swiss Prot No : Q62073

Rat Gene Id : 1.00911e+008

Rat Swiss Prot No : P0C8E4

Specificity : endogenous

Formulation : PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Immunoway

Best Tools for immunology Research

Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	WB 1:1000-1:5000,IF 1:200-1:1000,ELISA 1:5000-1:20000,IP 1:50-1:200,
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	67kD
Observed Band :	67kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;WNT;WNT-T CELLAdherens_Junction;Toll_Like;NOD-like receptor;RIG-I-like receptor;T_Cell_Receptor;

Background :

The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008],

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.,

Subcellular Location :

Cytoplasm, Membrane

Expression :

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.

Tag :	hot,recombinant
Sort :	1
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images

Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-TAK1 (PT0396R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A431 Lane 2: Hela Lane 3: U-14 Lane 4: Rat ovary Predicted band size: 67kDa Observed band size: 67kDa