

MEK-7 (phospho Thr275) Polyclonal Antibody

YP0426 Catalog No:

Reactivity: Human; Mouse; Rat

WB;IHC;IF;ELISA **Applications:**

Target: MKK7

Fields: >>MAPK signaling pathway;>>ErbB signaling pathway;>>Protein processing in

> endoplasmic reticulum:>>Osteoclast differentiation:>>Tight junction:>>Toll-like receptor signaling pathway;>>T cell receptor signaling pathway;>>Fc epsilon RI

signaling pathway;>>TNF signaling pathway;>>Neurotrophin signaling

pathway;>>GnRH signaling pathway;>>Relaxin signaling pathway;>>Alcoholic liver disease;>>Alzheimer disease;>>Huntington disease;>>Pathways of neurodegeneration - multiple diseases;>>Salmonella infection;>>Yersinia

infection;>>Hepatitis B;>>Kaposi sarcoma-associated herpesvirus

infection;>>Epstein-Barr virus infection;>>Human immunodeficiency virus 1 infection;>>Chemical carcinogenesis - reactive oxygen species;>>Lipid and

atherosclerosis:>>Fluid shear stress and atherosclerosis

Gene Name: MAP2K7

Protein Name: Dual specificity mitogen-activated protein kinase kinase 7

Human Gene Id: 5609

Human Swiss Prot O14733

No:

Mouse Gene Id: 26400

Mouse Swiss Prot

No:

Q8CE90

Rat Gene Id: 363855

Rat Swiss Prot No: Q4KSH7

The antiserum was produced against synthesized peptide derived from human Immunogen:

MAP2K7 around the phosphorylation site of Thr275. AA range:241-290



Specificity: Phospho-MEK-7 (T275) Polyclonal Antibody detects endogenous levels of

MEK-7 protein only when phosphorylated at T275.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 43kD

Cell Pathway:

MAPK_ERK_Growth;MAPK_G_Protein;ErbB_HER;Toll_Like;T_Cell_Receptor;F

c epsilon RI;Neurotrophin;GnRH;

Background: The protein encoded by this gene is a dual specificity protein kinase that belongs

to the MAP kinase kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kinase itself is phosphorylated and activated by MAP

kinase kinase kinases including MAP3K1/MEKK1,

MAP3K2/MEKK2,MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the signal transduction mediating the cell responses to proinflammatory cytokines, and environmental stresses. Alternative splicing results in multiple

transcript variants. [provided by RefSeg, Jul 2014],

Function : catalytic activity:ATP + a protein = ADP + a

phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by phosphorylation by specific MAP kinase kinase kinases such as

MAP3K1/MEKK1, MAP3K3/MEKK3, MAP3K11/MLK3 and

MAP3K12/DLK., function: Stress activated, dual specificity kinase that activates

the JUN kinases MAPK8/JNK1, MAPK9/JNK2 and

MAPK10/JNK3.,PTM:Activated by phosphorylation on Ser/Thr.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase

kinase subfamily., similarity: Contains 1 protein kinase domain., tissue

specificity: Ubiquitous; with highest level of expression in skeletal muscle. Isoform

3 is found at low levels in placenta, fetal liver, and skeletal muscle...

Subcellular Location:

Nucleus. Cytoplasm.

Expression: Ubiquitous; with highest level of expression in skeletal muscle. Isoform 3 is found



at low levels in placenta, fetal liver, and skeletal muscle.

Tag: orthogonal

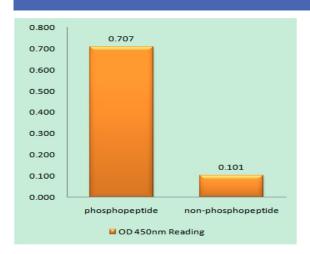
Sort : 9572

No4:

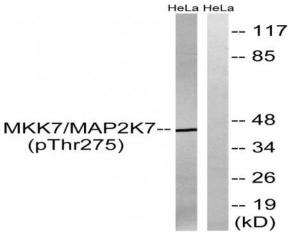
Host: Rabbit

Modifications: Phospho

Products Images

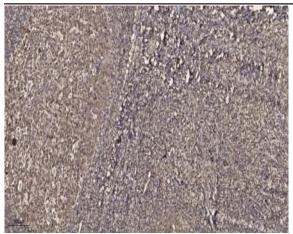


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using MAP2K7 (Phospho-Thr275) Antibody



Western blot analysis of lysates from HeLa cells treated with calyculinA 50ng/ml 30', using MAP2K7 (Phospho-Thr275) Antibody. The lane on the right is blocked with the phospho peptide.

3/4



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).