



MEK-7 Polyclonal Antibody

Catalog No	YP-Ab-14842
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC
Gene Name	MAP2K7
Immunogen	The antiserum was produced against synthesized peptide derived from human MAP2K7. AA range:241-290
Specificity	MEK-7 Polyclonal Antibody detects endogenous levels of MEK-7 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MEK;MKK7;JNKK2;MEK 7;MAPKK7;PRKMK7;SAPKK4;SAPKK-4;K7;MAP2K7; Dual specificity mitogen-activated protein kinase kinase 7;MEK7;SKK4;MAP kinase kinase 7;MAPKK 7;JNK-activating kinase 2;MAPK/ERK kinase 7;Stress-activated protein kinase kinase 4;SAPK kinase 4;S
Observed Band	47kD
Calculated Molecular Weight	47kD
Cell Pathway	Nucleus. Cytoplasm .
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.
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



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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 RefSeq, Jul 2014],

matters needing attention

Avoid repeated freezing and thawing!

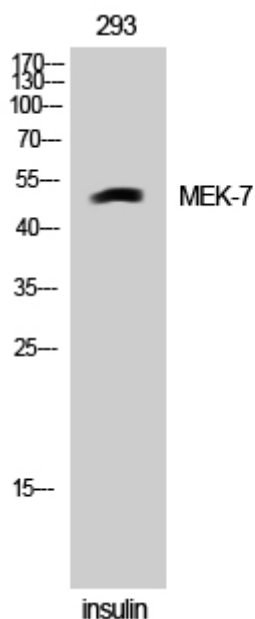
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

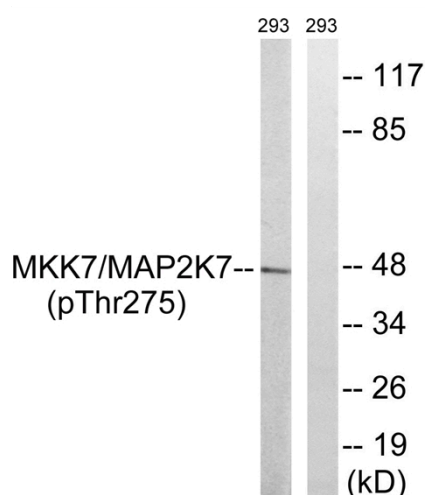


Products Images

Western Blot analysis of 293 cells using MEK-7 Polyclonal Antibody



Western blot analysis of lysates from 293 cells treated with insulin 0.01U/ml 15', using MAP2K7 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 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).

