

MEK-7 (phospho Ser271) Polyclonal Antibody

Catalog No :	YP0790
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
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 No :	O14733
Mouse Gene Id :	26400
Mouse Swiss Prot No :	Q8CE90
Rat Gene Id :	363855
Rat Swiss Prot No :	Q4KSH7
Immunogen :	The antiserum was produced against synthesized peptide derived from human MAP2K7 around the phosphorylation site of Ser271. AA range:236-285

Specificity :	Phospho-MEK-7 (S271) Polyclonal Antibody detects endogenous levels of MEK-7 protein only when phosphorylated at S271.
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 :	47kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;ErbB_HER;Toll_Like;T_Cell_Receptor;Fc 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 RefSeq, 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

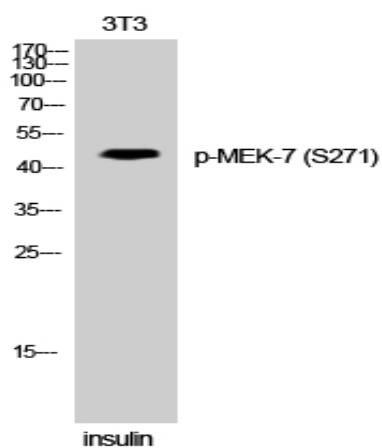
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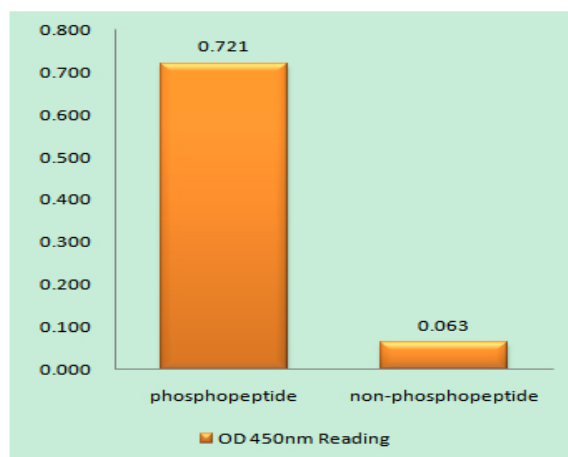
Host : Rabbit

Modifications : Phospho

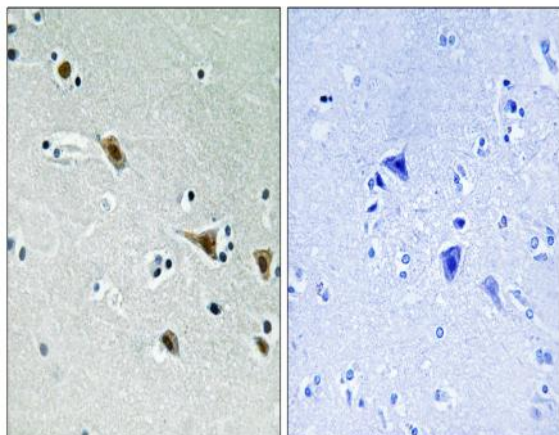
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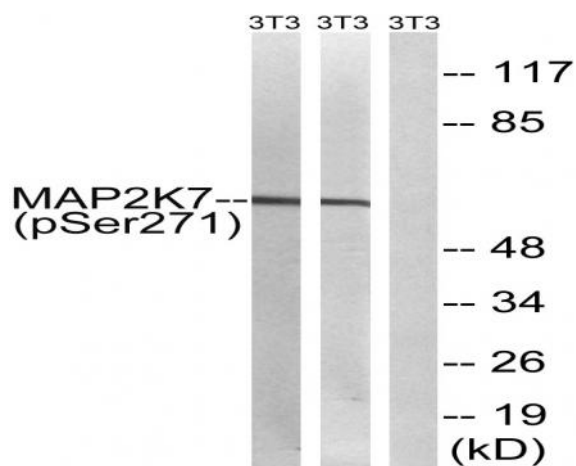
Western Blot analysis of 3T3 cells using Phospho-MEK-7 (S271) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using MAP2K7 (Phospho-Ser271) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using MAP2K7 (Phospho-Ser271) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells treated with insulin 0.01U/ml 15' and NIH/3T3 cells treated with EGF 200ng/ml 30', using MAP2K7 (Phospho-Ser271) Antibody. The lane on the right is blocked with the phospho peptide.