

**MEK-7 (phospho Ser271) Polyclonal Antibody**

<b>Catalog No :</b>	YP0790
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	MKK7
<b>Fields :</b>	>>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
<b>Gene Name :</b>	MAP2K7
<b>Protein Name :</b>	Dual specificity mitogen-activated protein kinase kinase 7
<b>Human Gene Id :</b>	5609
<b>Human Swiss Prot No :</b>	O14733
<b>Mouse Gene Id :</b>	26400
<b>Mouse Swiss Prot No :</b>	Q8CE90
<b>Rat Gene Id :</b>	363855
<b>Rat Swiss Prot No :</b>	Q4KSH7
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human MAP2K7 around the phosphorylation site of Ser271. AA range:236-285

<b>Specificity :</b>	Phospho-MEK-7 (S271) Polyclonal Antibody detects endogenous levels of MEK-7 protein only when phosphorylated at S271.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	47kD
<b>Cell Pathway :</b>	MAPK_ERK_Growth;MAPK_G_Protein;ErbB_HER;Toll_Like;T_Cell_Receptor;Fc epsilon RI;Neurotrophin;GnRH;
<b>Background :</b>	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],
<b>Function :</b>	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.,
<b>Subcellular Location :</b>	Nucleus. Cytoplasm .
<b>Expression :</b>	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

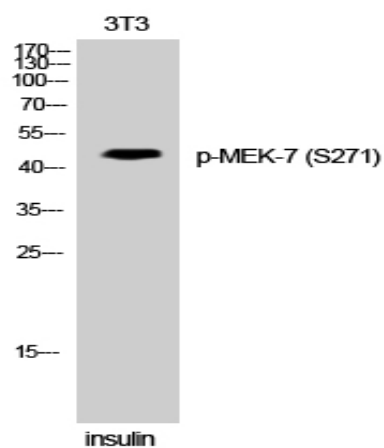
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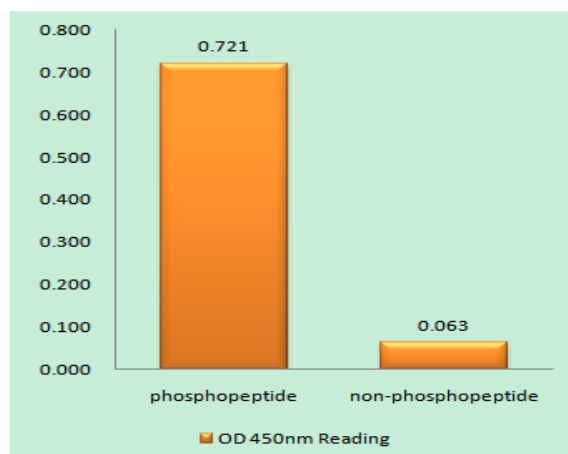
**Host :** Rabbit

**Modifications :** Phospho

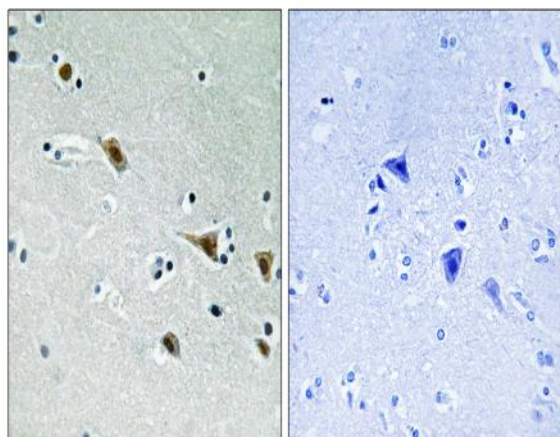
## Products Images



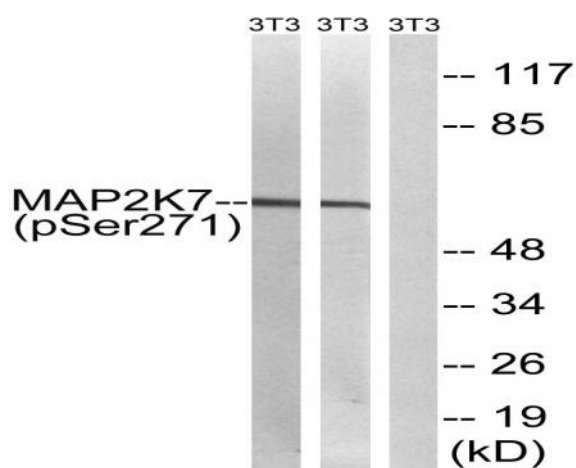
Western Blot analysis of 3T3 cells using Phospho-MEK-7 (S271) Polyclonal Antibody



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.