

**Mnk1 (phospho Thr255) Polyclonal Antibody**

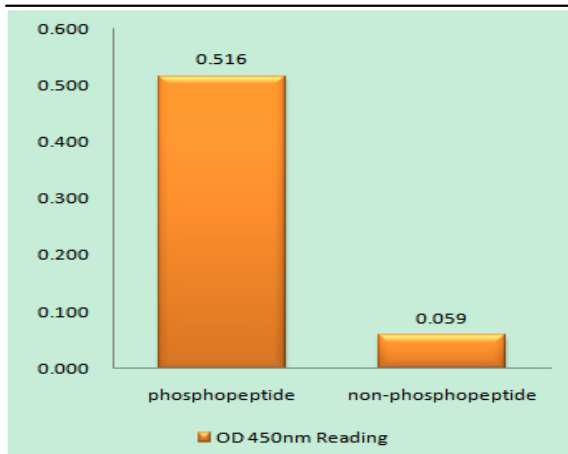
<b>Catalog No :</b>	YP0427
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC
<b>Target :</b>	Mnk1
<b>Fields :</b>	>>MAPK signaling pathway;>>HIF-1 signaling pathway;>>Insulin signaling pathway
<b>Gene Name :</b>	MKNK1
<b>Protein Name :</b>	MAP kinase-interacting serine/threonine-protein kinase 1
<b>Human Gene Id :</b>	8569
<b>Human Swiss Prot No :</b>	Q9BUB5
<b>Mouse Gene Id :</b>	17346
<b>Mouse Swiss Prot No :</b>	O08605
<b>Rat Gene Id :</b>	500526
<b>Rat Swiss Prot No :</b>	Q4G050
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human MNK1 around the phosphorylation site of Thr255. AA range:221-270
<b>Specificity :</b>	Phospho-Mnk1 (T255) Polyclonal Antibody detects endogenous levels of Mnk1 protein only when phosphorylated at T255.
<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 1:500-2000;IHC 1:50-300

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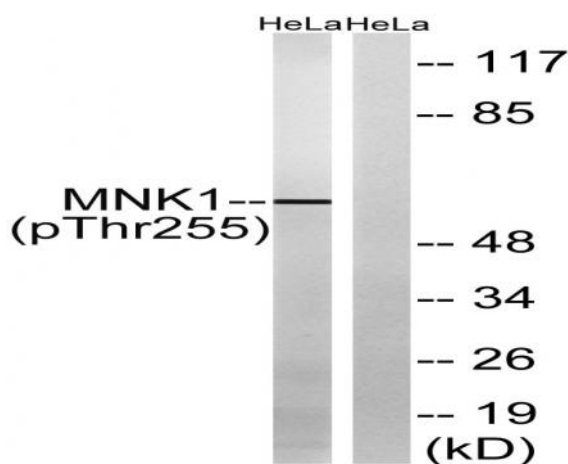
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	60kD
<b>Cell Pathway :</b>	MAPK_ERK_Growth;MAPK_G_Protein;Insulin_Receptor;
<b>Background :</b>	MAP kinase interacting serine/threonine kinase 1(MKNK1) Homo sapiens This gene encodes a Ser/Thr protein kinase that interacts with, and is activated by ERK1 and p38 mitogen-activated protein kinases, and thus may play a role in the response to environmental stress and cytokines. This kinase may also regulate transcription by phosphorylating eIF4E via interaction with the C-terminal region of eIF4G. Alternatively spliced transcript variants have been noted for this gene. [provided by RefSeq, Jan 2012],
<b>Function :</b>	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Phosphorylated and activated by the p38 kinases and kinases in the Erk pathway.,function:May play a role in the response to environmental stress and cytokines. Appears to regulate transcription by phosphorylating EIF4E, thus increasing the affinity of this protein for the 7-methylguanosine-containing mRNA cap.,PTM: Dual phosphorylation of Thr-250 and Thr-255 activates the kinase. Phosphorylation of Thr-385 activates the kinase.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with the C-terminal regions of EIF4G1 and EIF4G2. Also binds to dephosphorylated ERK1 and ERK2, and to the p38 kinases.,tissue specificity:Ubiquitous.,
<b>Subcellular Location :</b>	[Isoform 2]: Cytoplasm.; [Isoform 3]: Cytoplasm. Nucleus.
<b>Expression :</b>	Ubiquitous.

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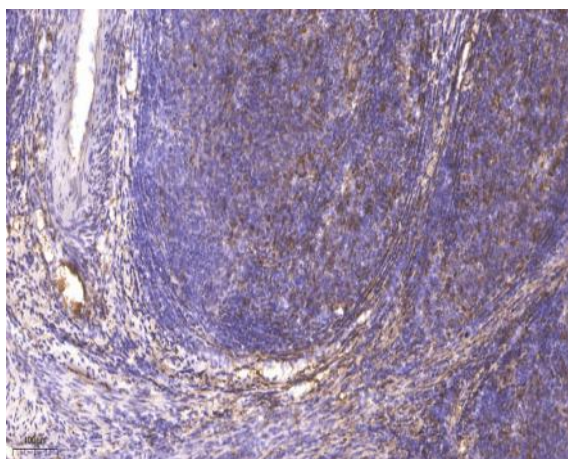
## Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using MNK1 (Phospho-Thr255) Antibody



Western blot analysis of lysates from HeLa cells treated with Adriamycin 0.5ug/ml 24h, using MNK1 (Phospho-Thr255) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma. 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).