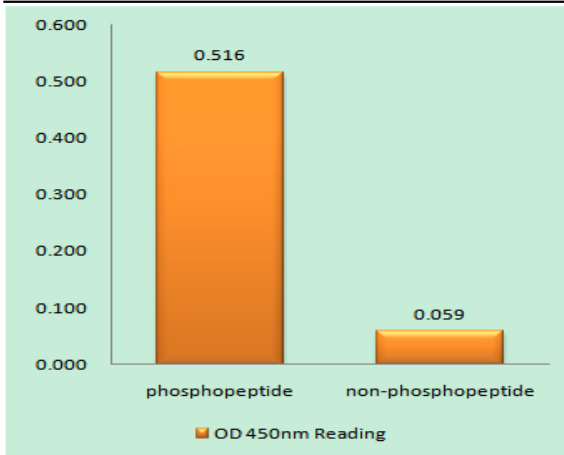


Mnk1 (phospho Thr255) Polyclonal Antibody

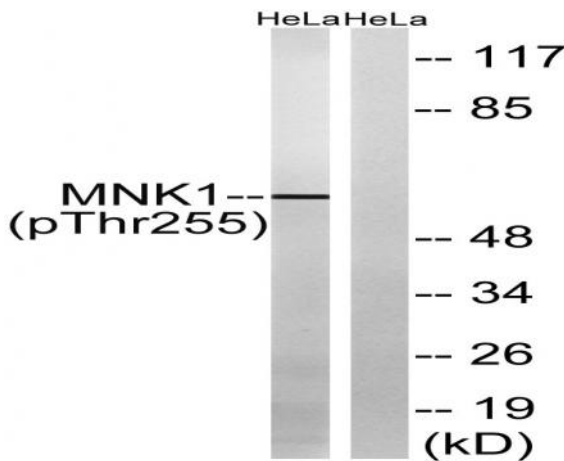
Catalog No :	YP0427
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC
Target :	Mnk1
Fields :	>>MAPK signaling pathway;>>HIF-1 signaling pathway;>>Insulin signaling pathway
Gene Name :	MKNK1
Protein Name :	MAP kinase-interacting serine/threonine-protein kinase 1
Human Gene Id :	8569
Human Swiss Prot No :	Q9BUB5
Mouse Gene Id :	17346
Mouse Swiss Prot No :	O08605
Rat Gene Id :	500526
Rat Swiss Prot No :	Q4G050
Immunogen :	The antiserum was produced against synthesized peptide derived from human MNK1 around the phosphorylation site of Thr255. AA range:221-270
Specificity :	Phospho-Mnk1 (T255) Polyclonal Antibody detects endogenous levels of Mnk1 protein only when phosphorylated at T255.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300

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 :	60kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;Insulin_Receptor;
Background :	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],
Function :	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.,
Subcellular Location :	[Isoform 2]: Cytoplasm.; [Isoform 3]: Cytoplasm. Nucleus.
Expression :	Ubiquitous.

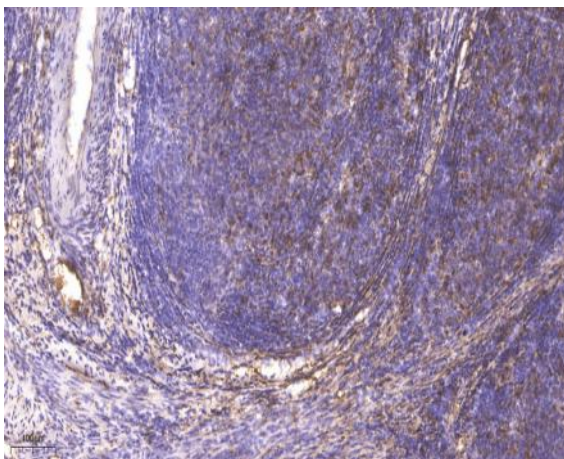
Products Images



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).