



Mnk1 Monoclonal Antibody

Catalog No	YP-mAb-14859
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MKNK1
Immunogen	The antiserum was produced against synthesized peptide derived from human MKNK1. AA range:111-160
Specificity	Mnk1 Monoclonal Antibody detects endogenous levels of Mnk1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MKNK1;EC:2.7.11.1;MAP kinase signal-integrating kinase 1;MAP kinase-interacting serine/threonine-protein kinase 1;MAPK signal-integrating kinase 1; Mnk1
Observed Band	51kD
Calculated Molecular Weight	51kD
Cell Pathway	[Isoform 2]: Cytoplasm.; [Isoform 3]: Cytoplasm. Nucleus.
Tissue Specificity	Ubiquitous.
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.,

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],

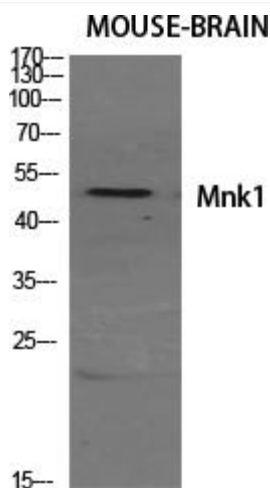
matters needing attention

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 various cells using Mnk1 Monoclonal Antibody