

Rabbit Mnk1 Polyclonal Antibody | anti-Mnk1 antibody

Phospho-Mnk1 (Thr250) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31406	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

Mnk1; Polyclonal Antibody; Phospho-Mnk1 (Thr250) Antibody; MAP kinase interacting kinase 1; MAP kinase interacting serine/threonine kinase 1; MAP kinase signal integrating kinase 1; MAP kinase signal-integrating kinase 1; MAP kinase-interacting serine/threonine-protein kinase 1; MAPK signal integrating kinase 1; MITOGEN-ACTIVATED PROTEIN KINASE-INTERACTING SERINE/THREONINE KINASE 1; mknk1; MKNK1_HUMAN; MNK 1; anti-Mnk1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Mnk1 (Thr250) Antibody detects endogenous levels of Mnk1 only when phosphorylated at Thr250. Tissue Specificity: Ubiquitous.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Mnk1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Mnk1 around the phosphorylation site of Thr250.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Dual phosphorylation of Thr-250 and Thr-255 activates the kinase. Phosphorylation of Thr-385 activates the kinase. MAPK3/ERK1 is one of the kinases which activate MKNK1/MNK1. Phosphorylation by PAK2 leads to a reduced phosphorylation of EIF4G1.
Subunit Structure	Interacts with the C-terminal regions of EIF4G1 and EIF4G2. Also binds to dephosphorylated ERK1 and ERK2, and to the p38 kinases.
Similarity	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.
Subcellular Location	Cytoplasm. Cytoplasm. Nucleus.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



Application Data

At 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/200 staining Human liver cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/200 staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of MNK1 (Phospho-Thr250) using TNF treated Jurkat whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)

Western blot analysis of extracts from 293 cells(UV treatment), using Phospho-Mnk1 (Thr250) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-Mnk1 antibody	May play a role in the response to environmental stress and cytokines. Appears to regulate translation by phosphorylating EIF4E, thus increasing the affinity of this protein for the 7-methylguanosine-containing mRNA cap.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	207113186
NCBI GeneID	8569
NCBI Accession #	NP_001129025.1
NCBI GenBank Nucleotide #	NM_001135553.2
UniProt Accession #	Q9BUB5; O00312; Q5TC06; Q5TC07; Q6V0N6; D3DQ20; D3DQ21
Molecular Weight	51,342 Da
NCBI Official Full Name	MAP kinase-interacting serine/threonine-protein kinase 1 isoform 3
NCBI Official Synonym Full Names	MAP kinase interacting serine/threonine kinase 1
NCBI Official Symbol	MKNK1
NCBI Official Synonym Symbols	MNK1
NCBI Protein Information	MAP kinase-interacting serine/threonine-protein kinase 1; MAPK signal-integrating kinase 1; MAP kinase signal-integrating kinase 1
UniProt Protein Name	MAP kinase-interacting serine/threonine-protein kinase 1
UniProt Gene Name	MKNK1

UniProt Synonym Gene Names	MNK1; MAPK signal-integrating kinase 1; Mnk1
UniProt Entry Name	MKNK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mnk1-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-peptide-elisa-elisa/31406>