

For Research Use Only

MNK1 Polyclonal antibody

Catalog Number: 10136-1-AP

3 Publications



Basic Information

Catalog Number:

10136-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0184

GenBank Accession Number:

BC002755

GeneID (NCBI):

8569

UNIPROT ID:

Q9BUB5

Full Name:

MAP kinase interacting serine/threonine kinase 1

Calculated MW:

51 kDa

Observed MW:

51 kDa, 47 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : HeLa cells, HEK-293 cells, HepG2 cells, HL-60 cells, mouse small intestine tissue

IF/ICC : HepG2 cells,

Background Information

MNK1 (mitogen-activated protein kinase-interacting kinase 1) was discovered as a consequence of bacterial expression libraries screening for proteins regulated by the classical mitogen-activated protein kinases, the ERKs (extracellular signal-regulated kinases). Phosphorylation of Mnk1 has been shown to activate its kinase activity as well as to enhance its binding to the eukaryotic initiation factor 4G (eIF4G) which functions as a scaffolding protein. Human MNK1 arises from an alternatively spliced transcript giving rise to 2 isoforms, longer MNK1a (50 kDa) and a shorter MNK1b variant (38 kDa) that lacks 89 C-terminal amino acids (PMID: 21406405).

Notable Publications

Author	Pubmed ID	Journal	Application
Qian Zhao	32156008	Int J Mol Sci	WB
Van-Hoai Bui	38444006	Chem Biol Drug Des	WB
Feifei Qin	30957641	J Enzyme Inhib Med Chem	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

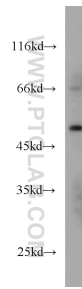
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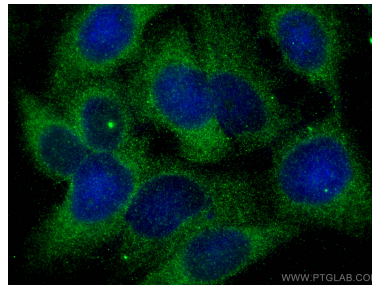
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W: ptglab.com

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Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 10136-1-AP (MNK1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MNK1 antibody (10136-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).