

For Research Use Only

# MNK1 Polyclonal antibody, PBS Only

Catalog Number:10136-1-PBS



## Basic Information

**Catalog Number:**

10136-1-PBS

**Size:**

100ug , Concentration: 1 mg/ml by Nanodrop;

**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

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## 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).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

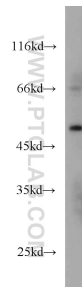
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

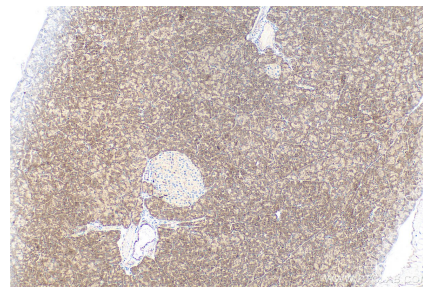
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

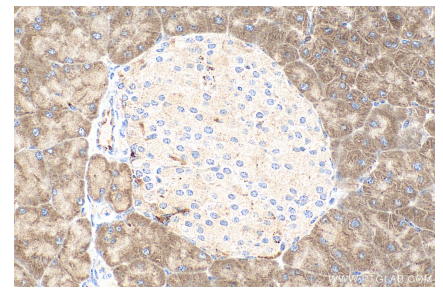
## Selected Validation Data



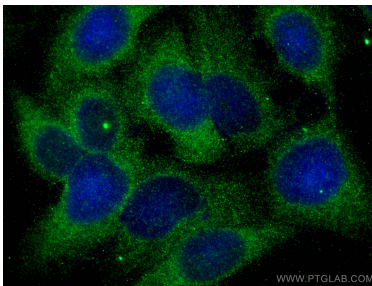
HeLa cells were subjected to SDS PAGE followed by western blot with 10136-1-AP (MNK1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10136-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue slide using 10136-1-AP (MNK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10136-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue slide using 10136-1-AP (MNK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10136-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MNK1 antibody (10136-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 10136-1-PBS in a different storage buffer formulation.