

## MNK1 (Phospho Thr385) Rabbit pAb

CatalogNo: YP0824 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 42kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:20000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human MNK1 around the phosphorylation site of Thr385. AA range:351-400

## Specificity

Phospho-MNK1 (T385) Polyclonal Antibody detects endogenous levels of MNK1 protein only when phosphorylated at T385. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):LPtPQ

## Target Information

**Gene name** MKNK1

**Protein Name** MAP kinase-interacting serine/threonine-protein kinase 1

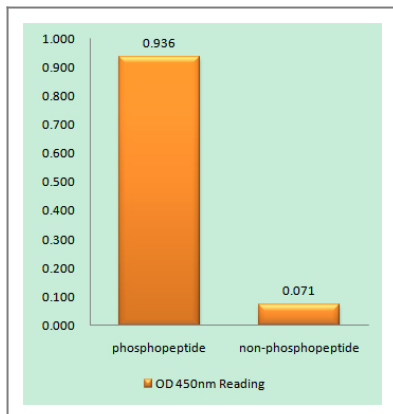
Organism	Gene ID	UniProt ID
Human	<a href="#">8569</a> ;	<a href="#">Q9BUB5</a> ;
Mouse	<a href="#">17346</a> ;	<a href="#">O08605</a> ;
Rat	<a href="#">500526</a> ;	<a href="#">Q4G050</a> ;

**Cellular Localization** [Isoform 2]: Cytoplasm.; [Isoform 3]: Cytoplasm. Nucleus.

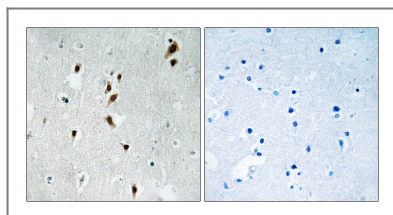
**Tissue specificity** Ubiquitous.

**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. ,

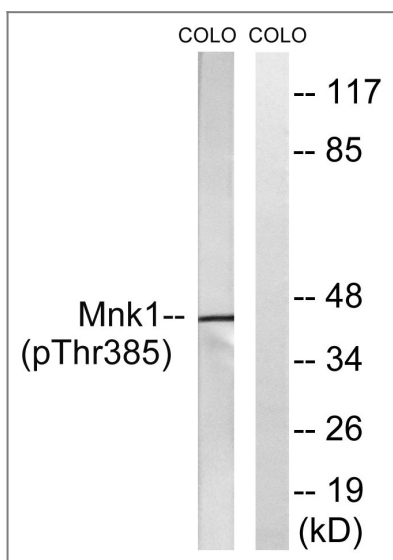
## Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Mnk1 (Phospho-Thr385) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Mnk1 (Phospho-Thr385) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COLO205 cells treated with PMA 125ng/ml 30', using Mnk1 (Phospho-Thr385) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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