

## MEK-7 (Phospho Ser271) Rabbit pAb

CatalogNo: YP0790 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 47kD (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 MAP2K7 around the phosphorylation site of Ser271. AA range: 236-285

## Specificity

Phospho-MEK-7 (S271) Polyclonal Antibody detects endogenous levels of MEK-7 protein only when phosphorylated at S271. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):VDsKA

## Target Information

**Gene name** MAP2K7

**Protein Name** Dual specificity mitogen-activated protein kinase kinase 7

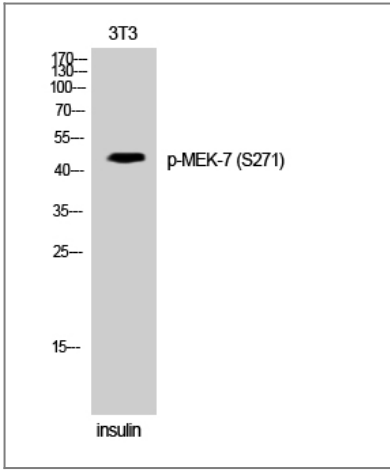
Organism	Gene ID	UniProt ID
Human	<a href="#">5609</a> ;	<a href="#">O14733</a> ;
Mouse	<a href="#">26400</a> ;	<a href="#">Q8CE90</a> ;
Rat	<a href="#">363855</a> ;	<a href="#">Q4KSH7</a> ;

**Cellular Localization** Nucleus. Cytoplasm .

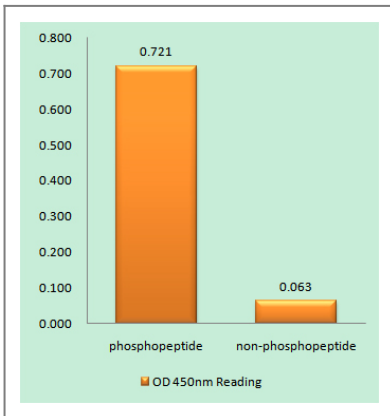
**Tissue specificity** Ubiquitous; with highest level of expression in skeletal muscle. Isoform 3 is found at low levels in placenta, fetal liver, and skeletal muscle.

**Function** Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by phosphorylation by specific MAP kinase kinase kinases such as MAP3K1/MEKK1, MAP3K3/MEKK3, MAP3K11/MLK3 and MAP3K12/DLK.,Function:Stress activated, dual specificity kinase that activates the JUN kinases MAPK8/JNK1, MAPK9/JNK2 and MAPK10/JNK3.,PTM:Activated by phosphorylation on Ser/Thr.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,tissue specificity:Ubiquitous; with highest level of expression in skeletal muscle. Isoform 3 is found at low levels in placenta, fetal liver, and skeletal muscle.,

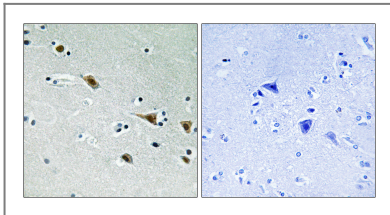
## Validation Data



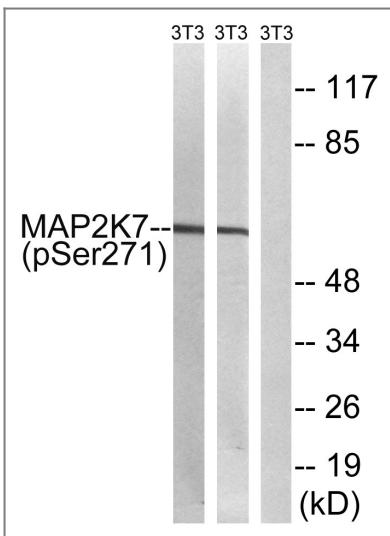
Western Blot analysis of 3T3 cells using Phospho-MEK-7 (S271) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using MAP2K7 (Phospho-Ser271) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using MAP2K7 (Phospho-Ser271) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells treated with insulin 0.01U/ml 15' and NIH/3T3 cells treated with EGF 200ng/ml 30', using MAP2K7 (Phospho-Ser271) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code  
to access additional  
product information:  
**MEK-7 (Phospho  
Ser271) Rabbit pAb**

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