# MEK-7 (Phospho Thr275) Rabbit pAb

CatalogNo: YP0426 Orthogonal Validated

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 43kD (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

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|---|---|
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human MAP2K7 around the phosphorylation site of Thr275. AA range:241-290 |

**Specificity** Phospho-MEK-7 (T275) Polyclonal Antibody detects endogenous levels of MEK-7 protein only when phosphorylated at T275.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):AKtRS

## Target Information

**Gene name** MAP2K7

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

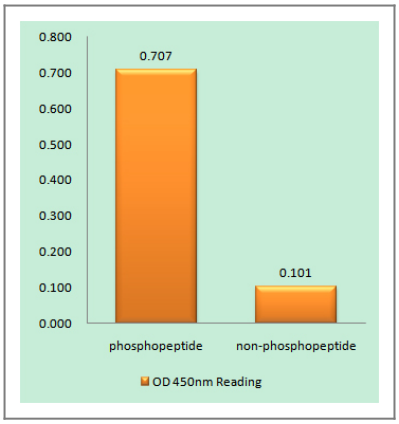
| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 5609; | O14733; |
| Mouse | 26400; | Q8CE90; |
| Rat | 363855; | Q4KSH7; |

**Cellular Localization** Nucleus. Cytoplasm .

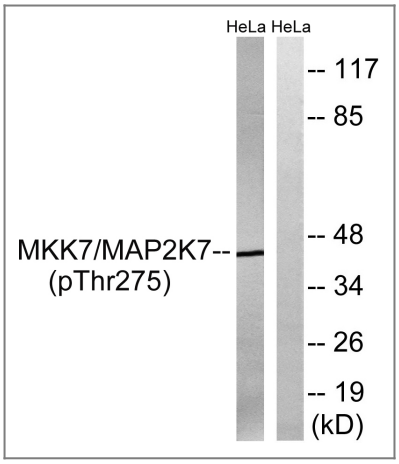
**Tissue specificity** Ubiquitous; with highest level of expression in skeletal muscle. Isoform 3 is found at low levels in placenta , fetal liver , and skeletal muscle.

**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. ,

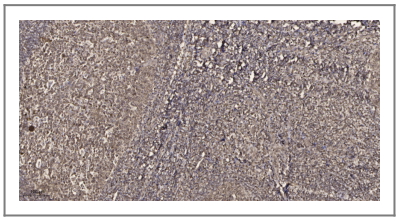
## Validation Data




Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using MAP2K7 (Phospho-Thr275) Antibody




Western blot analysis of lysates from HeLa cells treated with calyculinA 50ng/ml 30', using MAP2K7 (Phospho-Thr275) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4℃ overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

## Contact information


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