

## MKK3 (Phospho Thr222) Rabbit pAb

CatalogNo: YP0789 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 39kD (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 1:5000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human MAP2K3 around the phosphorylation site of Thr222. AA range:188-237

## Specificity

Phospho-MEK-3 (T222) Polyclonal Antibody detects endogenous levels of MEK-3 protein only when phosphorylated at T222. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):AKtMD

## Target Information

**Gene name** MAP2K3

**Protein Name** Dual specificity mitogen-activated protein kinase kinase 3

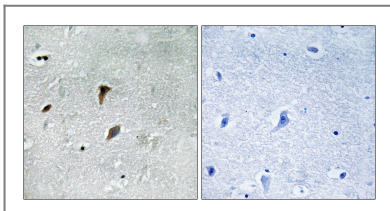
Organism	Gene ID	UniProt ID
Human	<a href="#">5606;</a>	<a href="#">P46734;</a>
Mouse	<a href="#">26397;</a>	<a href="#">O09110;</a>

**Cellular Localization** nucleoplasm ,cytoplasm ,cytosol ,membrane ,

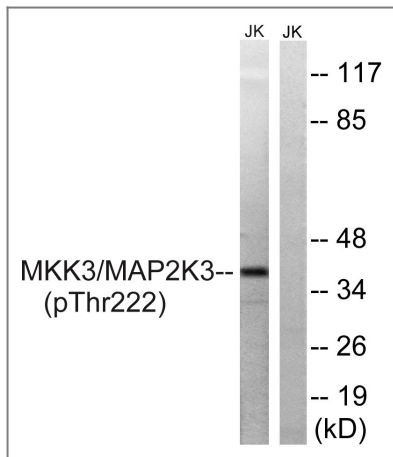
**Tissue specificity** Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.

**Function** Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,Disease:Defects in MAP2K3 may be involved in colon cancer. ,enzyme regulation:Activated by dual phosphorylation on Ser-218 and Thr-222. ,Function:Dual specificity kinase. Is activated by cytokines and environmental stress in vivo. Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinase p38. ,PTM:Autophosphorylated. ,PTM:Phosphorylation on Ser-218 and Thr-222 by MAP kinase kinase kinases regulates positively the kinase activity. ,PTM:Yersinia yopJ may acetylate Ser/Thr residues , preventing phosphorylation and activation , thus blocking the MAPK signaling pathway. ,similarity:Belongs to the protein kinase superfamily. ,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily. ,similarity:Contains 1 protein kinase domain. ,subunit:Binds to DYRK1B/MIRK and increases its kinase activity. Part of a complex with MAP3K3 , RAC1 and CCM2. Interacts with Yersinia yopJ. ,tissue specificity:Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues. ,

## Validation Data



Immunohistochemistry analysis of paraffin-embedded human brain, using MAP2K3 (Phospho-Thr222) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with serum 20% 15', using MAP2K3 (Phospho-Thr222) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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**MKK3 (Phospho Thr222) Rabbit pAb**

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