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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

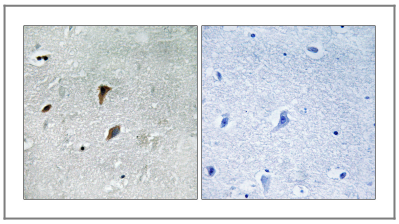
Organism	Gene ID	UniProt ID
Human	5606;	P46734;
Mouse	26397;	O09110;

Cellular Localization nucleoplasm ,cytoplasm ,cytosol ,membrane ,

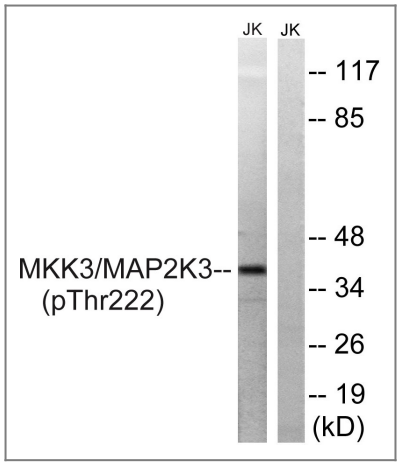
Tissue specificity Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.

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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Please scan the QR code to access additional product information:
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