

**MEK3 protein**

<b>Catalog No :</b>	YD0067
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;SDS-PAGE
<b>Gene Name :</b>	MAP2K3
<b>Protein Name :</b>	MEK3 protein
<b>Sequence :</b>	Amino acid: F192, with his-MBP tag.
<b>Human Gene Id :</b>	5606
<b>Human Swiss Prot No :</b>	P46734
<b>Mouse Swiss Prot No :</b>	O09110
<b>Formulation :</b>	Liquid in PBS
<b>Source :</b>	E.coli
<b>Dilution :</b>	WB 1:500-2000
<b>Concentration :</b>	SDS-PAGE >90%
<b>Storage Stability :</b>	-20 °C/6 month, -80 °C for long storage
<b>Background :</b>	<p>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</p>

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.,

### Function :

MAPKKK cascade, activation of MAPK activity, regulation of cytokine production, muscle system process, circulatory system process, heart process, regulation of transcription, DNA-dependent, protein amino acid phosphorylation,phosphorus metabolic process, phosphate metabolic process, muscle contraction, striated muscle contraction, defense response, inflammatory response, intracellular signaling cascade, protein kinase cascade, blood circulation, response to wounding, positive regulation of biosynthetic process, positive regulation of macromolecule biosynthetic process,positive regulation of macromolecule metabolic process, positive regulation of gene expression, phosphorylation,regulation of phosphate metabolic process, positive regulation of cellular biosynthetic process, positive regulation of kinase activity, regulation of cytokine biosynthetic process, regulation of phosphorylation,

### Expression :

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

## Products Images

