

MEK5 protein

Catalog No :	YD0069
Reactivity :	Human
Applications :	WB;SDS-PAGE
Gene Name :	MAP2K5
Protein Name :	MEK5 protein
Sequence :	Amino acid: 58-178, with his-MBP tag.
Human Gene Id :	5067
Human Swiss Prot No :	Q13163
Mouse Swiss Prot No :	Q9WVS7
Formulation :	Liquid in PBS
Source :	E.coli
Dilution :	WB 1:500-2000
Concentration :	SDS-PAGE >90%
Storage Stability :	-20 °C/6 month, -80 °C for long storage
Background :	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,domain:Bounds MAP3K2/MAP3K3 and MAPK7 via non-overlapping residues of the OPR domain. This domain also mediates interactions with SQSTM1 and PARD6A.,function:Acts as a scaffold for the formation of a ternary MAP3K2/MAP3K3-MAP3K5-MAPK7 signaling complex. Activation of this pathway appear to play a critical role in protecting cells from stress-induced apoptosis, neuronal survival and cardiac development and angiogenesis.,PTM:Activated by phosphorylation on Ser/Thr by MAP kinase kinase kinases.,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. STE Ser/Thr protein

kinase family. MAP kinase kinase subfamily.,similarity:Contains 1 OPR domain.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with PARD6A, MAP3K3 and MAPK7. Forms a complex with SQSTM1 and PRKCZ or PRKCI (By similarity). Interacts with Yersinia yopJ.,tissue specificity:Expressed in many adult tissues. Abundant in heart and skeletal muscle.,

Function :

MAPKKK cascade, regulation of cell growth, protein amino acid phosphorylation, phosphorus metabolic process,phosphate metabolic process, intracellular signaling cascade, protein kinase cascade, heart development, positive regulation of cell proliferation, regulation of cell size, phosphorylation, positive regulation of cell growth, regulation of cellular component size, regulation of growth, regulation of cell proliferation, positive regulation of cell size, positive regulation of growth, regulation of epithelial cell proliferation, positive regulation of epithelial cell proliferation,

Expression :

Expressed in many adult tissues. Abundant in heart and skeletal muscle.

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