MAP2K3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MAP2K3, Polyclonal Antibody
Full Product Name	MAP2K3 (Dual Specificity Mitogen-activated Protein Kinase Kinase 3, Mitogen-activated Protein Kinase Kinase 3, MAP Kinase Kinase 3, MAPKK 3, MI
Product Gene Name	anti-MAP2K3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MAP2K3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
OMIM	602315
3D Structure	ModBase 3D Structure for P46734
Immunogen	Full length human MAP2K3, aa1-347 (NP_659731.1).
Immunogen Sequence	MESPASSQPASMPQSKGKSKRKKDLRISCMSKPPAPNPTPPRNLDSRTFITIGDRNFEVEADDLVTISELGRGAYGVVEKVRHAQSGTIMAVKRIRATVNS
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-MAP2K3 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-MAP2K3 antibody	Western Blot (WB)
Application Notes for anti-MAP2K3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MAP2K3 antibody	MKK3 is a protein kinase that phosphorylates the p38 MAPK. Phosphorylation by MKK3 occurs on threonine and tyrosine residues and increases the a
Other Notes	Small volumes of anti-MAP2K3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece

Searchable Terms for MAP2K3 purchase	MBS6384804 is an antibody targeting MAP2K3. Also known as MAP2K3 (Dual Specificity Mitogen-activated Protein Kinase Kinase 3, Mitogen-activate

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAP2K3. It may not necessarily be applicable to this product.

NCBI GI #	21618349
NCBI GeneID	5606
NCBI Accession #	NP_659731.1
UniProt Primary Accession #	P46734
UniProt Related Accession #	P46734
GenBank Nucleotide #	NM_145109.1
NCBI Official Full Name	dual specificity mitogen-activated protein kinase kinase 3 isoform B
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 3
NCBI Official Symbol	MAP2K3
NCBI Official Synonym Symbols	MEK3; MKK3; MAPKK3; PRKMK3; SAPKK2; SAPKK-2
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 3
UniProt Synonym Protein Names	MAPK/ERK kinase 3; MEK 3; Stress-activated protein kinase kinase 2
Protein Family	Dual specificity mitogen-activated protein kinase kinase
UniProt Gene Name	MAP2K3
UniProt Synonym Gene Names	MEK3; MKK3; PRKMK3; SKK2; MAP kinase kinase 3; MAPKK 3; MEK 3; SAPK kinase 2; SAPKK-2; SAPKK2
UniProt Entry Name	MP2K3_HUMAN
NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 3
NCBI Summary for MAP2K3	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersina pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for MAP2K3	MKK3: a dual-specificity protein kinase of the STE7 family. Activates p38 MAP kinase by phosphorylating a Thr and a Tyr residue in the activation loop. Is activated by cytokines and environmental stress in vivo. A deletion and two point mutants found in colon cancer cell lines. Three splice-variant isoforms have been described. Protein type: Protein kinase, dual-specificity (non-receptor); Kinase, protein; Protein kinase, STE; EC 2.7.12.2; STE group; STE7 family Chromosomal Location of Human Ortholog: 17q11.2 Cellular Component: nucleoplasm; membrane; cytosol Molecular Function: MAP kinase kinase activity; protein binding; protein-tyrosine kinase activity; protein kinase binding; ATP binding; receptor signaling protein serine/threonine kinase activity Biological Process: peptidyl-tyrosine phosphorylation; activation of MAPK activity; positive regulation of transcription, DNA-dependent; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; pathogenesis; toll-like receptor 3 signaling pathway; signal transduction; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; positive regulation of protein kinase activity; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; inflammatory response; toll-like receptor 4 signaling pathway; regulation of cytokine biosynthetic process; cardiac muscle contraction
Research Articles on MAP2K3	**1.** Expression of human MKK3 in Drosophila is able to initiate JNK-mediated cell migration, cooperates with oncogenic Ras to trigger tumor invasion, and rescue loss-of-lic induced thorax closure defect.
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