MEK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MEK2, Polyclonal Antibody
Full Product Name	MEK2 (MAPK/ERK Kinase 2, MEK 2, Dual Specificity Mitogen-activated Protein Kinase Kinase 2, MAP Kinase Kinase 2, MAP2K2, MAPKK 2, MAPKK2, MKK2, PRKMK2, ERK Activator Kinase 2) (MaxLight 405)
Product Gene Name	anti-MEK2 antibody
Product Synonym Names	Mitogen-activated Protein Kinase Kinase 2; EC=2.7.12.2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human MAP2K2. Species Crossreactivity: mouse.
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	400
OMIM	gene 615280
3D Structure	ModBase 3D Structure for P36507
Immunogen	Synthetic peptide selected from the center region of human MAP2K2 (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-MEK2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-MEK2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-MEK2 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-MEK2 antibody	MBS6487584 is an antibody targeting MEK2. Also known as MEK2 (MAPK/ERK Kinase 2, MEK 2, Dual Specificity Mitogen-activated Protein Kinase Kinase 2, MAP Kinase Kinase 2, MAP2K2, MAPKK 2, MAPKK2, MKK2, PRKMK2, ERK Activator Kinase 2) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-MEK2 antibody	1. Burroughs, K.D., et al., Mol. Cancer Res. 1(4):312-322 (2003). 2. Tran, H., et al., Mol. Cell. Biol. 23(20):7177-7188 (2003). 3. Li, S.P., et al., Cancer Res. 63(13):3473-3477 (2003). 4. Li, Y., et al., J. Biol. Chem. 278(16):13663-13671 (2003). 5. Liu, X., et al., J. Biol. Chem. 277(42):39312-39319 (2002).

Other Notes	Small volumes of anti-MEK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEK2. It may not necessarily be applicable to this product.

NCBI GI #	547915
NCBI GeneID	5605
NCBI Accession #	P36507.1
UniProt Primary Accession #	P36507
UniProt Related Accession #	P36507
NCBI Official Full Name	Dual specificity mitogen-activated protein kinase kinase 2
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 2
NCBI Official Symbol	MAP2K2
NCBI Official Synonym Symbols	CFC4; MEK2; MKK2; MAPKK2; PRKMK2
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 2
UniProt Synonym Protein Names	ERK activator kinase 2; MAPK/ERK kinase 2; MEK 2
UniProt Gene Name	MAP2K2
UniProt Synonym Gene Names	MEK2; MKK2; PRKMK2; MAP kinase kinase 2; MAPKK 2; MEK 2
UniProt Entry Name	MP2K2_HUMAN
NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 2; MAPK/ERK kinase 2; MAP kinase kinase 2; ERK activator kinase 2; mitogen-activated protein kinase kinase 2, p45
NCBI Summary for MEK2	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for MEK2	MEK2: a dual-specificity protein kinase of the STE7 kinase family. Phosphorylated and activated by Raf and Mos kinases. Phosphorylates a Thr and a Tyr residue in a Thr-Glu-Tyr sequence located in the activation loop of ERK2 and ERK3. A component of MAP kinase signal transduction pathways involved in mitogen growth factor signal transduction. Protein type: EC 2.7.12.2; Protein kinase, dual-specificity (non-receptor); Protein kinase, STE; Kinase, protein; STE group; STE7 family Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: Golgi apparatus; peroxisomal membrane; microtubule; internal side of plasma membrane; focal adhesion; mitochondrion; endoplasmic reticulum; early endosome; extracellular region; intercellular junction; cell cortex; cytosol; perinuclear region of cytoplasm; late endosome; cytoplasm; nucleus Molecular Function: MAP kinase kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activator activity; protein binding; protein-tyrosine kinase activity; protein serine/threonine/tyrosine kinase activity; protein complex scaffold; ATP binding; PDZ domain binding Biological Process: epidermal growth factor receptor signaling pathway; axon guidance; fibroblast growth factor receptor signaling pathway; peptidyl-tyrosine phosphorylation; activation of MAPKK activity; nerve growth factor receptor signaling pathway; activation of MAPK activity; MyD88-independent toll-like receptor signaling pathway; MAPKKK cascade; stress-activated MAPK cascade; pathogenesis; toll-like receptor 3 signaling pathway; 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; regulation of stress-activated MAPK cascade; small GTPase mediated signal transduction; Ras protein signal transduction; insulin receptor signaling pathway; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; vascular endothelial growth factor receptor signaling pathway; toll-like receptor 4 signaling pathway Disease: Cardiofaciocutaneous Syndrome 4
Research Articles on MEK2	**1.** Both ACE inhibition and MEK1/2 inhibition have beneficial effects on left ventricular function in Lmna(H222P/H222P) mice and both drugs together have a synergistic benefit when initiated after the onset of left ventricular dysfunction.
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