MEK-4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MEK-4, Polyclonal Antibody
Full Product Name	MEK-4 Polyclonal Conjugated Antibody
Product Gene Name	anti-MEK-4 antibody
Product Synonym Names	MAP2K4; JNKK1; MEK4; MKK4; PRKMK4; SEK1; SERK1; SKK1; Dual specificity mitogen-activated protein kinase kinase 4; MAP kinase kinase 4; MAPKK 4; JNK-activating kinase 1; MAPK/ERK kinase 4; MEK 4; SAPK/ERK kinase 1; SEK1; Stress-activated pro
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	MEK-4 polyclonal antibody detects endogenous levels of MEK-4 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	44,288 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (11924135..12047051). Location: 17p12
OMIM	601335
3D Structure	ModBase 3D Structure for P45985
Immunogen	Synthesized peptide derived from human MEK-4 around the non-phosphorylation site of S80.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-MEK-4 antibody	Most Applications
Application Notes for anti-MEK-4 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-MEK-4 antibody	MBS9449922 is an antibody targeting MEK-4. Also known as MEK-4 Polyclonal Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-MEK-4 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 MEK-4. It may not necessarily be applicable to this product.

NCBI GI #	4506889
NCBI GeneID	6416
NCBI Accession #	NP_003001.1
UniProt Primary Accession #	P45985
UniProt Secondary Accession #	Q5U0B8; Q6FHX4; Q6P9H2; Q6PIE6; B2R7N7; B3KYB2; D3DTS5
UniProt Related Accession #	P45985
GenBank Nucleotide #	NM_003010.2
NCBI Official Full Name	dual specificity mitogen-activated protein kinase kinase 4
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 4
NCBI Official Symbol	MAP2K4
NCBI Official Synonym Symbols	JNKK; MEK4; MKK4; SEK1; JNKK1; SERK1; MAPKK4; PRKMK4; SAPKK1; SAPKK-1
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 4
UniProt Synonym Protein Names	JNK-activating kinase 1; MAPK/ERK kinase 4; MEK 4; SAPK/ERK kinase 1; SEK1; Stress-activated protein kinase kinase 1; SAPK kinase 1; SAPKK-1; SAPKK1; c-Jun N-terminal kinase kinase 1
Protein Family	Dual specificity mitogen-activated protein kinase kinase
UniProt Gene Name	MAP2K4
UniProt Synonym Gene Names	JNKK1; MEK4; MKK4; PRKMK4; SEK1; SERK1; SKK1; MAP kinase kinase 4; MAPKK 4; MEK 4; SEK1; SAPK kinase 1; SAPKK-1; SAPKK1; JNKK
UniProt Entry Name	MP2K4_HUMAN
NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 4; MEK 4; MAPKK 4; SAPK kinase 1; MAPK/ERK kinase 4; SAPK/ERK kinase 1; MAP kinase kinase 4; JNK-activated kinase 1; JNK activating kinase 1; JNK-activating kinase 1; c-Jun N-terminal kinase kinase
NCBI Summary for MEK-4	This gene encodes a dual specificity protein kinase that belongs to the Ser/Thr protein kinase family. This kinase is a direct activator of MAP kinases in response to various environmental stresses or mitogenic stimuli. It has been shown to activate MAPK8/JNK1, MAPK9/JNK2, and MAPK14/p38, but not MAPK1/ERK2 or MAPK3/ERK3. This kinase is phosphorylated, and thus activated by MAP3K1/MEKK. The knockout studies in mice suggested the roles of this kinase in mediating survival signal in T cell development, as well as in the organogenesis of liver. [provided by RefSeq, Jul 2008]

UniProt Comments for MEK-4	MKK4: dual specificity kinase of the STE7 family that phosphorylates and activates JNK1 and -2 as well as p38 but not ERK1 or -2. Mediates cellular responses to various cellular stresses and inflammatory cytokines. Phosphorylation by Akt inhibits MKK4 and suppresses stress-activated signal transduction. Protein type: Kinase, protein; EC 2.7.12.2; Protein kinase, STE; Protein kinase, dual-specificity (non-receptor); STE group; STE7 family Chromosomal Location of Human Ortholog: 17p12 Cellular Component: dendrite cytoplasm; axon; perikaryon; intracellular; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; protein-tyrosine kinase activity; mitogen-activated protein kinase kinase kinase binding; JUN kinase kinase activity; ATP binding; protein kinase activity Biological Process: peptidyl-tyrosine phosphorylation; apoptosis; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; pathogenesis; toll-like receptor 3 signaling pathway; signal transduction; activation of JNK activity; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; positive regulation of neuron apoptosis; toll-like receptor signaling pathway; innate immune response; JNK cascade; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway; positive regulation of DNA replication; positive regulation of nitric-oxide synthase biosynthetic process
Research Articles on MEK-4	**1.** MicroRNA-92a negatively regulates Toll-like receptor (TLR)-triggered inflammatory response in macrophages by targeting MKK4 kinase
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