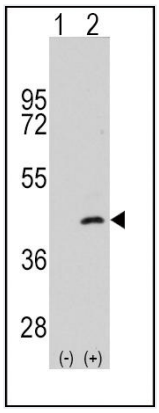
MAP2K4 Antibody – Rabbit Polyclonal

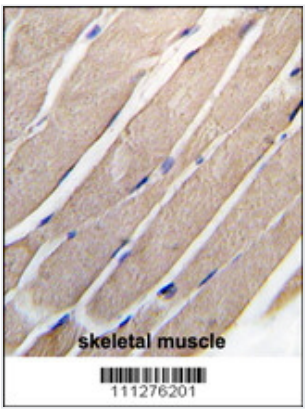
PRODUCT OVERVIEW

Product Name	MAP2K4, Polyclonal Antibody
Full Product Name	MAP2K4 (Ser257) (Dual Specificity Mitogen-activated Protein Kinase Kinase 4, MAP Kinase Kinase 4, MAPKK 4, MAPKK4, MKK4, JNK-activating Kinase 1, c-Jun N-terminal Kinase Kinase 1, JNKK1, JNKK, MAPK/ERK Kinase 4, MEK 4, MEK4, PRKMK4, SAPK/ERK Kinase 1, SEK
Product Gene Name	anti-MAP2K4 antibody
Product Synonym Names	EC=2.7.12.2; Mitogen-activated Protein Kinase Kinase 4
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 Allophycocyanin (APC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human MAP2K4.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	44kDa
OMIM	601335
3D Structure	ModBase 3D Structure for P45985
Immunogen	Synthetic non-phosphopeptide corresponding to amino acid residues surrounding Ser257of human MAP2K4 (KLH).
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-MAP2K4 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-MAP2K4 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-MAP2K4 antibody	IHC: 1:10-1:50 FLISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-MAP2K4 antibody	MBS6486485 is an antibody targeting MAP2K4. Also known as MAP2K4 (Ser257) (Dual Specificity Mitogen-activated Protein Kinase Kinase 4, MAP Kinase Kinase 4, MAPKK 4, MAPKK4, MKK4, JNK-activating Kinase 1, c-Jun N-terminal Kinase Kinase 1, JNKK1, JNKK, MAPK/ERK Kinase 4, MEK 4, MEK4, PRKMK4, SAPK/ERK Kinase 1, SEK. Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MAP2K4 antibody	1. Robinson, V.L., Mol. Cancer Res. 6(3), 501-508 (2008). 2. Zhang, H., J. Biol. Chem. 282(20), 14788-14796 (2007). 3. Salmeron, A., EMBO J. 15(4), 817-826 (1996).

Other Notes	Small volumes of anti-MAP2K4 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.



Western Blot (WB) of anti-MAP2K4 antibody
Western blot analysis of MAP2K4 (arrow) using rabbit polyclonal MAP2K4 Antibody (S257).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MAP2K4 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-MAP2K4 antibody
Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with MAP2K4 Antibody (S257), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAP2K4. It may not necessarily be applicable to this product.

NCBI GI #	4506889
NCBI GeneID	6416
NCBI Accession #	NP_003001
UniProt Primary Accession #	P45985
UniProt Related Accession #	P45985
GenBank Nucleotide #	NM_003010
NCBI Official Full Name	dual specificity mitogen-activated protein kinase kinase 4 isoform 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 4
NCBI Official Symbol	MAP2K4
NCBI Official Synonym Symbols	JNKK; MEK4; MKK4; SEK1; SKK1; 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

NCBI Summary for MAP2K4	This gene encodes a member of the mitogen-activated protein kinase (MAPK) family. Members of this family act as an integration point for multiple biochemical signals and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation, and development. They form a three-tiered signaling module composed of MAPKKKs, MAPKKs, and MAPKs. This protein is phosphorylated at serine and threonine residues by MAPKKKs and subsequently phosphorylates downstream MAPK targets at threonine and tyrosine residues. A similar protein in mouse has been reported to play a role in liver organogenesis. A pseudogene of this gene is located on the long arm of chromosome X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
UniProt Comments for MAP2K4	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 MAP2K4	**1.** These results provide valuable insights into the role of acetylation in MKK4-JNK signaling in T cells.
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