MAP2K7 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MAP2K7, Monoclonal Antibody
Full Product Name	MAP2K7 (MKK7, JNKK2, MEK7, MKK7, PRKMK7, SKK4, Dual Specificity Mitogen-activated Protein Kinase Kinase 7, JNK-activating Kinase 2, MAPK/ERK Kinase 7, Stress-activated Protein Kinase Kinase 4, c-Jun N-terminal Kinase Kinase 2) (FITC)
Product Gene Name	anti-MAP2K7 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2G5
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes human MAP2K7.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	48,182 Da
OMIM	603014
3D Structure	ModBase 3D Structure for O14733
Immunogen	Recombinant protein corresponding to aa1-99 from human MAP2K7 with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAASSLEQKLSRLEAKLKQENREARRRIDLNLDISPQRPRPTLQLPLANDGGSRSPSSESSPQHPTPPARPRHMLGLPSTLFTPRSMESIEIDQKLQEI
Conjugate	FITC
Product Categories/Family for anti-MAP2K7 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-MAP2K7 antibody	ELISA (EIA), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB), In situ Proximity Ligation Assay
Application Notes for anti-MAP2K7 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-MAP2K7 antibody	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kinase itself is phosphorylated and activated by MAP kinase kinase kinases including MAP3K1/MEKK1, MAP3K2/MEKK2,MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the signal transduction mediating the cell responses to proinflammatory cytokines, and environmental stresses. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found, but only one transcript variant has been supported and defined.
Other Notes	Small volumes of anti-MAP2K7 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.
Searchable Terms for MAP2K7 purchase	MBS6150779 is an antibody targeting MAP2K7. Also known as MAP2K7 (MKK7, JNKK2, MEK7, MKK7, PRKMK7, SKK4, Dual Specificity Mitogen-activated Protein Kinase Kinase 7, JNK-activating Kinase 2, MAPK/ERK Kinase 7, Stress-activated Protein Kinase Kinase 4, c-Jun N-terminal Kinase Kinase 2) (FITC). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAP2K7. It may not necessarily be applicable to this product.

NCBI GI #	21735544
NCBI GeneID	5609
NCBI Accession #	NP_660186
UniProt Primary Accession #	O14733
UniProt Secondary Accession #	O14648; O14816; O60452; O60453; Q1PG43; Q8IY10; B2R9S5; D6W659
UniProt Related Accession #	O14733
GenBank Nucleotide #	NM_145185
NCBI Official Full Name	dual specificity mitogen-activated protein kinase kinase 7 isoform 3
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 7
NCBI Official Symbol	MAP2K7
NCBI Official Synonym Symbols	MEK; MKK7; JNKK2; MEK 7; MAPKK7; PRKMK7; SAPKK4; SAPKK-4
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 7
UniProt Synonym Protein Names	JNK-activating kinase 2; MAPK/ERK kinase 7; MEK 7; Stress-activated protein kinase kinase 4; SAPK kinase 4; SAPKK-4; SAPKK4; c-Jun N-terminal kinase kinase 2
Protein Family	Dual specificity mitogen-activated protein kinase kinase
UniProt Gene Name	MAP2K7
UniProt Synonym Gene Names	JNKK2; MEK7; MKK7; PRKMK7; SKK4; MAP kinase kinase 7; MAPKK 7; MEK 7; SAPK kinase 4; SAPKK-4; SAPKK4; JNK kinase 2; JNKK 2
UniProt Entry Name	MP2K7_HUMAN
NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 7; JNK-activating kinase 2; MAP kinase kinase 7; MAPK/ERK kinase 7; SAPK kinase 4; c-Jun N-terminal kinase kinase 2; stress-activated protein kinase kinase 4

UniProt Comments for MAP2K7	MKK7: a dual-specificity protein kinase of the STE7 family. Activates JNK1 and -2 by phosphorylating a Thr and a Tyr residue in the activation loop. Is activated by proinflammatory cytokines and environmental stress. Three alternatively spliced isoforms have been reported. Protein type: Protein kinase, STE; Protein kinase, dual-specificity (non-receptor); EC 2.7.12.2; Kinase, protein; STE group; STE7 family Chromosomal Location of Human Ortholog: 19p13.3-p13.2 Cellular Component: cytoplasm; intracellular; cytosol; nucleus Molecular Function: MAP kinase kinase activity; protein C-terminus binding; protein serine/threonine kinase activity; protein binding; enzyme binding; protein-tyrosine kinase activity; magnesium ion binding; mitogen-activated protein kinase kinase kinase binding; JUN kinase kinase activity; protein kinase binding; protein phosphatase binding; ATP binding Biological Process: peptidyl-tyrosine phosphorylation; apoptosis; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; pathogenesis; toll-like receptor 3 signaling pathway; response to osmotic stress; signal transduction; activation of JNK activity; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; response to heat; 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; response to UV
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