MAP3K10 Antibody Antigenic Blocking Peptide

PRODUCT OVERVIEW

Product Name	MAP3K10, Blocking Peptide
Full Product Name	MAP3K10 Antibody Antigenic Blocking Peptide
Product Gene Name	MAP3K10 blocking peptide
Product Synonym Names	MEKK10; MEKK9; Mitogen activated protein kinase kinase kinase 10; Mitogen activated protein kinase kinase kinase 9; Mixed lineage kinase 2; MKN28 derived nonreceptor type serine/threonine kinase; MKN28 kinase; MLK1; MLK2; MST; PRKE1; Protein kinase MST antibody
Form/Format	Antigenic Blocking Peptide
Concentration	Quantity: 250 ug; Volume: 100 ul (lot specific)
Preparation and Storage	-20• degree C for long term storage
Antibody/Peptide Pairs	MAP3K10 peptide (MBS543950) is used for blocking the activity of MAP3K10 antibody (MBS542026)
Antibody/Peptide Pairs	MAP3K10 peptide (MBS543950) is used for blocking the activity of MAP3K10 antibody (MBS542028)
Antibody/Peptide Pairs	MAP3K10 peptide (MBS543950) is used for blocking the activity of MAP3K10 antibody (MBS542029)
Molecular Weight	103,694 Da
OMIM	600137
Immunogen	Synthetic Peptide
Immunoglobulin	IgG
Expression	Expressed in brain and skeletal muscle.
Molecular Function	ATP binding; Kinase; Serine/threonine-protein kinase; Transferase
Structure	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily. Contains 1 protein kinase domain. Contains 1 SH3 domain.
Subcellular Location	Cytoplasm
Applications Tested/Suitable for MAP3K10 blocking peptide	Dot Blot (DB), ELISA (EIA), IMM, Western Blot (WB)
Application Notes for MAP3K10 blocking peptide	Western Blot: 1:500
Related Product Information for MAP3K10 blocking peptide	Antigenic Blocking Peptide Mitogen-activated protein kinase kinase kinase 10 Antibody Activates the JUN N-terminal pathway.
Other Notes	Small volumes of MAP3K10 blocking peptide 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 MAP3K10 purchase	MBS543950 is a blocking peptide targeting MAP3K10. Also known as MAP3K10 Antibody Antigenic Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAP3K10. It may not necessarily be applicable to this product.

NCBI GI #	145559494

NCBI GeneID	4294
NCBI Accession #	Q02779.3
UniProt Primary Accession #	Q02779
UniProt Secondary Accession #	Q12761; Q14871
UniProt Related Accession #	Q02779
NCBI Official Full Name	Mitogen-activated protein kinase kinase kinase 10
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase 10
NCBI Official Symbol	MAP3K10
NCBI Official Synonym Symbols	MST; MLK2; MEKK10
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 10
UniProt Synonym Protein Names	Mixed lineage kinase 2; Protein kinase MST
Protein Family	Mitogen-activated protein kinase kinase kinase
UniProt Gene Name	MAP3K10
UniProt Synonym Gene Names	MLK2; MST
UniProt Entry Name	M3K10_HUMAN
NCBI Protein Information	mitogen-activated protein kinase kinase kinase 10
NCBI Summary for MAP3K10	The protein encoded by this gene is a member of the serine/threonine kinase family. This kinase has been shown to activate MAPK8/JNK and MKK4/SEK1, and this kinase itself can be phoshorylated, and thus activated by JNK kinases. This kinase functions preferentially on the JNK signaling pathway, and is reported to be involved in nerve growth factor (NGF) induced neuronal apoptosis. [provided by RefSeq, Jul 2008]
UniProt Comments for MAP3K10	MLK2: a TKL kinase of the MLK family. A dual leucine zipper kinase. Phosphorylates and activates JNK and SEK1. Interacts with PAK and NCK. May be involved in nerve growth factor-induced neuronal apoptosis. Protein type: EC 2.7.11.25; Protein kinase, TKL; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); TKL group; MLK family; MLK subfamily Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: cytoplasm Molecular Function: ATP binding; bHLH transcription factor binding; JUN kinase kinase kinase activity; protein homodimerization activity; protein kinase activity; protein serine/threonine kinase activity; transcription corepressor activity Biological Process: activation of JNK activity; activation of JNKK activity; apoptosis; JNK cascade; negative regulation of transcription factor activity; negative regulation of transcription, DNA-dependent; peptidyl-serine phosphorylation; peptidyl-threonine phosphorylation; positive regulation of apoptosis; positive regulation of JNK activity; positive regulation of JNK cascade; protein amino acid autophosphorylation; signal transduction; smoothened signaling pathway
Research Articles on MAP3K10	**1.** MAP3K4 is sufficiently mediate the TGFbeta-induced phosphorylation of p38 MAPK in MEFs and HaCaT cells.
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