Recombinant Human Mitogen-Activated Protein Kinase Kinase Kinase 11, GST-Tagged

Cat. No. MAP3K11-1039H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAP3K11 (1-488) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-488 a.a.
Description	MAP3K11 or Mixed-Lineage Kinase 3 is a mitogen-activated protein kinase kinase kinase capable of preferentially activating MAPK8/JNK kinase and functions as a positive regulator of JNK signaling pathway. MAP3K11 can directly phosphorylate and activate IkappaB kinase α and β, and is found to be involved in the transcription activity of NF-kappaB mediated by Rho family GTPases and CDC42. MAP3K11 is a signal-integrating kinase with conventional MAP3K catalytic activity and additional noncatalytic functions that contribute to RAF/ERK signalling.
Applications	Kinase Assay, Western Blot
Molecular Weight	83 kDa
Expression System	Sf9 insect cells using baculovirus.
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10mM

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	glutathione, 0.25 mM DTT, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol.
Specific Activity	9.5 nmol/min/mg
Purity	> 85 %
Concentration	0.1 ug/ul
Sequences	1-488
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	CDC42 signaling events; IFN-gamma pathway; Insulin Signaling; MAPK signaling pathway; RAC1 signaling pathway; Reelin signaling pathway; superpathway of gluconate degradation

GENE INFORMATION

Gene Name	MAP3K11 mitogen-activated protein kinase kinase kinase 11 [Homo sapiens]
Official Symbol	MAP3K11
Synonyms	MAP3K11; MLK3; MGC17114; PTK1; SPRK; MLK-3; MEKK11; mitogen-activated protein kinase kinase kinase 11; mixed lineage kinase 3; protein-tyrosine kinase PTK1; SH3 domain-containing proline-rich kinase; OTTHUMP00000233268; src-homology 3 domain-containing proline-rich kinase; OTTHUMP00000233249
Gene ID	4296

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mRNA Refseq	NM_002419
Protein Refseq	NP_002410
MIM	600050
UniProt ID	Q16584
Chromosome Location	11q13.1-q13.3
Function	ATP binding; JUN kinase kinase kinase activity; Rac GTPase binding; identical protein binding; mitogen-activated protein kinase kinase binding; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; protein binding; protein homodimerization activity; protein kinase activity; protein serine/threonine kinase activity; protein tyrosine kinase activity

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