

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

Cat. No. MAPK11-1045H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MAPK11 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	MAPK11 is a member of the p38 MAP kinase family and is activated by both proinflammatory cytokines and environmental stress. The MAPK11 is activated through its phosphorylation by MAP kinase kinases (MKKs), preferably by MKK6. Transcription factor ATF2/CREB2 has been shown to be a substrate of this kinase. Alternatively spliced transcript variants encoding the same protein have been observed.
Applications	Kinase Assay; Western Blot
Molecular Weight	69 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.1 mM EGTA, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Purity	> 90 %

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Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. 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	Amyotrophic lateral sclerosis (ALS); Epithelial cell signaling in Helicobacter pylori infection; Fc epsilon RI signaling pathway; GnRH signaling pathway; Leukocyte transendothelial migration; MAPK signaling pathway; Neurotrophin signaling pathway; RIG-I-like receptor signaling pathway; T cell receptor signaling pathway; Toll-like receptor signaling pathway; VEGF signaling pathway; Signalling by NGF

GENE INFORMATION

Gene Name	MAPK11 mitogen-activated protein kinase 11 [Homo sapiens]
Official Symbol	MAPK11
Synonyms	MAPK11; mitogen-activated protein kinase 11; P38B; SAPK2; p38-2; PRKM11; SAPK2B; p38Beta; P38BETA2; stress-activated protein kinase-2; stress-activated protein kinase-2b; mitogen-activated protein kinase p38-2; mitogen-activated protein kinase p38 beta; EC 2.7.11.24; OTTHUMP00000196655
Gene ID	5600
mRNA Refseq	NM_002751
Protein Refseq	NP_002742

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MIM	602898
UniProt ID	Q15759
Chromosome Location	22q13.33
Function	ATP binding; MAP kinase activity; MAP kinase kinase activity; MP kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; transferase activity
PDB rendering based on 1jnk.	