Recombinant Human Mitogen-Activated Protein Kinase 10, GST-tagged

Cat. No. MAPK10-1044H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MAPK10 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	MAPK10 is a member of the c-Jun N-terminal kinases (JNKs) which are part of the mitogen-activated protein (MAP) kinase family, and regulate signal transduction in response to environmental stress. MAPK10 phosphorylates various transcription factors such as ATF2, Elk-1 and embers of the Jun family. Activation and nuclear localization of MAPK10, a neuronal-specific isoform of JNK, has been associated with hypoxic and ischemic damage of CA1 neurons in the hippocampus. Knockout mice lacking MAPK10 showed reduced apoptosis of hippocampal neurons and reduced seizure induced by kainic acid, a glutamate-receptor agonist.
Applications	Kinase Assay; Western Blot
Molecular Weight	71 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.

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Purity	> 75 %
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	Adipocytokine signaling pathway; Colorectal cancer; ErbB signaling pathway; Fc epsilon RI signaling pathway; Focal adhesion; GnRH signaling pathway; Insulin signaling pathway; MAPK signaling pathway; NOD-like receptor signaling pathway; Neurotrophin signaling pathway; Pancreatic cancer; Pathways in cancer; Progesterone-mediated oocyte maturationType II diabetes mellitus; Wnt signaling pathway

GENE INFORMATION

Gene Name	MAPK10 mitogen-activated protein kinase 10 [Homo sapiens]
Official Symbol	MAPK10
Synonyms	MAPK10; mitogen-activated protein kinase 10; JNK3; JNK3A; PRKM10; p493F12; FLJ12099; FLJ33785; MGC50974; p54bSAPK; MAP kinase; JNK3 alpha protein kinase; c-Jun N-terminal kinase 3; stress activated protein kinase beta; EC 2.7.11.24; MAP kinase p49 3F12; c-Jun kinase 3; OTHUMP00000161180; OTTHUMP00000161183; OTTHUMP00000161182
Gene ID	5602

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mRNA Refseq	NM_002753
Protein Refseq	NP_002744
MIM	602897
UniProt ID	P53779
Chromosome Location	4q22.1-q23
Function	ATP binding; JUN kinase activity; MAP kinase activity; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; transferase activity
PDB rendering basedon 1jnk.	

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