

Recombinant Human Mitogen-Activated Protein Kinase 9, GST-Tagged

Cat. No. MAPK9-1052H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MAPK9 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	MAPK9 is a member of the JNK family that acts as an integration point for multiple biochemical signals, and is involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. MAPK9 targets specific transcription factors, and mediates immediate-early gene expression in response to various cell stimuli. Both UV radiation and the proinflammatory cytokine TNF α can induce MAPK9. MAPK9 play a main role in the regulation of regional specific apoptosis during early brain development and providing protection against autoimmune diabetes.
Applications	Kinase Assay, Western Blot
Molecular Weight	70 kDa
Expression System	Sf9 insect cells using baculovirus.
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.25 mM DTT, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol.

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Specific Activity	3.3 nmol/min/mg
Purity	> 95 %
Concentration	0.1 ug/ul
Sequences	Full-length
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	Adipocytokine signaling pathway; Colorectal cancer; Epithelial cell signaling in Helicobacter pylori infection; ErbB signaling pathway; Fc epsilon RI signaling pathway; Focal adhesion; GnRH signaling pathway; Insulin signaling pathway; MAPK signaling pathway; Neurotrophin signaling pathway; Pancreatic cancer; Pathways in cancer; RIG-I-like receptor signaling pathway; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Type II diabetes mellitus; Wnt signaling pathway

GENE INFORMATION

Gene Name	MAPK9 mitogen-activated protein kinase 9 [Homo sapiens]
Official Symbol	MAPK9
Synonyms	MAPK9; JNK2; SAPK; p54a; JNK2A; JNK2B; PRKM9; JNK-55; JNK2BETA; p54aSAPK; JNK2ALPHA; Jun kinase; MAP kinase 9; c-Jun kinase 2; c-Jun N-terminal kinase 2; stress-activated protein kinase JNK2; mitogen-activated protein kinase 9 isoform JNK2 alpha2; mitogen-activated protein kinase 9; EC 2.7.11.24; Mitogen-activated protein kinase 9; Stress-activated protein kinase JNK2; OTTHUMP00000161542; OTTHUMP00000161543

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Gene ID	5601
mRNA Refseq	NM_139068
Protein Refseq	NP_620707
MIM	602896
UniProt ID	P45984
Chromosome Location	5q35
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
Rendering based on PDB3E7O.	