

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

Cat. No. Mapk9-1053R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length rat Mapk9 was expressed in E. coli cells using an N-terminal GST tag.
Species	Rat
Source	E.coli
Description	Mapk9 is a member of the MAP kinase group that is activated by dual phosphorylation at thr and tyr residues during exposure to stress such as UV irradiation and treatment of cells with TNF α . Mapk9 binds to the c-Jun transactivation domain and phosphorylates it on Ser-63 and Ser-73. Mapk9 has been shown to play an important role in disease processes. Mapk9 plays a role in ventricular hypertrophy and is thought to be involved in hypertensive cardiac disease.
Applications	Kinase Assay, Western Blot
Molecular Weight	74 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.1mM EGTA, 0.25 mM DTT, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol.
Purity	> 90 %

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Concentration	0.2 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	Activated TLR4 signalling; Activation of the AP-1 family of transcription factors; Adipocytokine signaling pathway; Chagas disease (American trypanosomiasis); ErbB signaling pathway; Fc epsilon RI signaling pathway; Focal adhesion; GnRH signaling pathway; Herpes simplex infection; IL-2 Signaling Pathway; IL-5 Signaling Pathway; Insulin signaling pathway; MAPK signaling pathway; NOD-like receptor signaling pathway; Neurotrophin signaling pathway; Wnt Signaling Pathway and Pluripotency

GENE INFORMATION

Gene Name	Mapk9 mitogen-activated protein kinase 9 [Rattus norvegicus]
Official Symbol	Mapk9
Synonyms	Mapk9; SAPK; mitogen-activated protein kinase 9; JNK2; PRKM9; p54a; Stress-activated protein kinase JNK2; JNK-55; c-Jun N-terminal kinase 2; MAP kinase 9; EC 2.7.11.24; JNK2A; JNK2ALPHA; JNK2B; JNK2BETA; ; c-Jun kinase 2; Jun kinase; p54aSAPK; EC 2.7.11; OTTHUMP00000161542; OTTHUMP00000161543
Gene ID	50658
mRNA Refseq	NM_017322
Protein Refseq	NP_059018

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UniProt ID	P49186
Chromosome Location	10q22
Function	ATP binding; JUN kinase activity; MAP kinase activity; caspase activator activity; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transcription factor binding
Rendering based on PDB3E7O.	