Recombinant Human MAPK9

Cat. No. MAPK9-29670TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human JNK2 expressed in a Baculovirus infected Sf9 cell system with an N-terminal proprietary tag, 70kDa..
Species	Human
Source	Insect Cells
ProteinLength	1 amino acids
Description	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase targets specific transcription factors, and thus mediates immediate-early gene expression in response to various cell stimuli. It is most closely related to MAPK8, both of which are involved in UV radiation induced apoptosis, thought to be related to the cytochrome c-mediated cell death pathway. This gene and MAPK8 are also known as c-Jun N-terminal kinases. This kinase blocks the ubiquitination of tumor suppressor p53, and thus it increases the stability of p53 in nonstressed cells. Studies of this genes mouse counterpart suggest a key role in T-cell differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported.
Molecular Weight	70.000kDa inclusive of tags
Biological activity	The Specific activity of MAPK9-29670TH was determined to be 3.3 nmol/min/mg.

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Form	Liquid
Purity	by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	MAPK9 mitogen-activated protein kinase 9 [Homo sapiens]
Official Symbol	MAPK9
Synonyms	MAPK9; mitogen-activated protein kinase 9; PRKM9; JNK2; Jun kinase; p54a; SAPK;
Gene ID	5601
mRNA Refseq	NM_001135044
Protein Refseq	NP_001128516
MIM	602896
Uniprot ID	P45984

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Chromosome Location	5q35
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Activation of the AP-1 family of transcription factors, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem;
Function	ATP binding; JUN kinase activity; MAP kinase activity; nucleotide binding; protein binding;

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