Recombinant Human MAPK8, GST-tagged

Cat. No. MAPK8-9382H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MAPK8 was expressed as gst-tagged fusion protein by E.Coli and puri?ed by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	True
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 is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Five alternatively spliced transcript variants encoding distinct isoforms have been reported.
AA Sequence	1-427aa
Storage	The protein is stored in PBS bu?er at -20 oC. Repeated freeze-thaw cycles should be

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	avoided.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	MAPK8 mitogen-activated protein kinase 8 [Homo sapiens (human)]
Official Symbol	MAPK8
Synonyms	MAPK8; JNK; JNK1; PRKM8; SAPK1; JNK-46; JNK1A2; SAPK1c; JNK21B1/2; mitogen-activated protein kinase 8; mitogen-activated protein kinase 8; MAP kinase 8; JUN N-terminal kinase; c-Jun N-terminal kinase 1; stress-activated protein kinase 1; stress-activated protein kinase 1c; mitogen-activated protein kinase 8 isoform JNK1 beta2; mitogen-activated protein kinase 8 isoform JNK1 alpha1; NP_001265476.1; EC 2.7.11.24; NP_001265477.1; NP_002741.1; NP_620634.1; NP_620637.1
Gene ID	5599
mRNA Refseq	NM_001278547
Protein Refseq	NP_001265476
MIM	601158
UniProt ID	P45983
Chromosome Location	10q11.22

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Pathway	AGE/RAGE pathway; Activated TLR4 signalling; B Cell Receptor Signaling Pathway
Function	ATP binding; JUN kinase activity; histone deacetylase binding

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