

## Recombinant Human MAPK8, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MAPK8 was expressed as gst-tagged fusion protein by E.Coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	True
<b>Description</b>	<p>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.</p>
<b>AA Sequence</b>	1-427aa
<b>Storage</b>	The protein is stored in PBS buffer at -20 oC. Repeated freeze-thaw cycles should be

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avoided.

**Storage Buffer**

1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 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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<b>Pathway</b>	AGE/RAGE pathway; Activated TLR4 signalling; B Cell Receptor Signaling Pathway
<b>Function</b>	ATP binding; JUN kinase activity; histone deacetylase binding

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