Recombinant Human MAPK1 Protein, GST-tagged

Cat. No. MAPK1-2008H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MAPK1 Protein is produced by E. coli expression system. The target protein is expressed with sequence (Met1-Ser360) of human MAPK1 (Accession #NP_002736.3) fused with a GST tag at the N-terminus.
Species	Human
Source	E.coli
ProteinLength	Met1-Ser360
Description	This gene encodes a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), 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. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. One study also suggests that this protein acts as a transcriptional repressor independent of its kinase activity. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene.
Form	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol.
Endotoxin	< 1.0 EU per

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	μg of the protein as determined by the LAL method.
Purity	> 90% as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70ºC.
Storage	Store it under sterile conditions at -20ºC~-70ºC. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	MAPK1 mitogen-activated protein kinase 1 [Homo sapiens]
Official Symbol	MAPK1
Synonyms	MAPK1; mitogen-activated protein kinase 1; PRKM1, PRKM2; ERK; ERK2; MAPK2; p41mapk; ERK-2; MAPK 2; p42-MAPK; MAP kinase 1; MAP kinase 2; MAP kinase isoform p42; protein tyrosine kinase ERK2; mitogen-activated protein kinase 2; extracellular signal-regulated kinase 2; p38; p40; p41; ERT1; PRKM1; PRKM2; P42MAPK;
Gene ID	5594
mRNA Refseq	NM_002745
Protein Refseq	NP_002736
MIM	176948

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UniProt ID	P28482

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