

Recombinant Human MAPK1 Protein, MYC/DDK-tagged

Cat. No. MAPK1-385H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MAPK1 protein, fused to MYC/DDK tag at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
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. [provided by RefSeq, Jan 2014].
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Molecular Mass	41.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name mitogen-activated protein kinase 1 [Homo sapiens]

Official Symbol MAPK1

Synonyms ERK; ERK-2; ERK2; ERT1; MAPK2; p38; p40; p41; p41mapk; p42-MAPK; P42MAPK; PRKM1; PRKM2

Gene ID 5594

mRNA Refseq NM_002745.4

Protein Refseq NP_002736.3

MIM 176948

UniProt ID P28482

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