

Recombinant Human MAPK7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MAPK7-846H Lot. No. (See product label)

SPECIFICATION

Product Overview	MAPK7 MS Standard C13 and N15-labeled recombinant protein (NP_002740) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<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 specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracellular signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four alternatively spliced transcript variants of this gene encoding two distinct isoforms have been reported.</p>
Molecular Mass	88.4 kDa
AA Sequence	MAEPLKEEDGEDGSAEPPGPVKAEPAHTAASVAAKNLALLKARSFDVTFDVGDEYEI IETIGNGAYGVVSSARRRLTGQQVAIKKIPNAFDVVTNAKRTLRELKILKHFKHDNIIAI

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KDILRPTVPYGEFKSVYVVLDLMESDLHQIIHSSQPLTLEHVRYFLYQLLRGLKYMHS
 AQVIHRDLKPSNLLVNENCELKIGDFGMARGLCTSPAEHQYFMTEYVATRWRAP
 LMLSLHEYTQAIDLWSVGCIFGEMLARRQLFPGKNYVHQLQLIMMVLGTPSPAVIQA
 VGAERVRAIYQSLPPRQVPWETVYPGADRQALSLLGRMLRFEPSARISAAAALRH
 PFLAKYHDPDDEPDCAPPDFAFDREALTRERIKEAIVAEIEDFHARREGIRQQIRFQ
 PSLQPVASEPGCPDVEMPSPWAPSGDCAMESPPPAPPCCPGPAPDTIDLTLQPPP
 PVSEPAPPKKDGAISDNTKAALKAALLKSLRSRLRDGSPAPLEAPEPRKPVTAQERQ
 REREKRRRRQERAKERERKRRQERERKERGAGASGGPSTDPLAGLVLSNDNDRSLL
 ERWTRMARPAAPALTSVPAPAPAPTPTPTPVQPTSPPPGPVAQPTGPQPQSAGST
 SGPVPQPACPPPGPAPHPTGPPGPIPVAPPQIATSTSLAAQSLVPPPGLPGSSTP
 GVLFPYFPPGLPPPDPAGGAPQSSMSESPDNLVTQQLSKSQVEDPLPPVFSGTPKG
 SGAGYGVGFDLEEFNLQSFDMGVADGPQDQADSASLSASLLADWLEGHGMNPA
 DIESLQREIQMDSPMLLADLPDLQDPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MAPK7 mitogen-activated protein kinase 7 [Homo sapiens (human)]

Official Symbol MAPK7

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Synonyms MAPK7; mitogen-activated protein kinase 7; PRKM7; BMK1; BMK1 kinase; ERK5; extracellular signal regulated kinase 5; BMK-1; ERK-5; MAPK 7; MAP kinase 7; big MAP kinase 1; extracellular signal-regulated kinase 5; extracellular-signal-regulated kinase 5; ERK4;

Gene ID [5598](#)

mRNA Refseq [NM_002749](#)

Protein Refseq [NP_002740](#)

MIM [602521](#)

UniProt ID [Q13164](#)

SDS-PAGE



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