

Product datasheet for TP510486

Mapk7 (NM_011841) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse mitogen-activated protein kinase 7 (Mapk7), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210486 representing NM_011841 Red=Cloning site Green=Tags(s)

MAEPLKEEDGEDGSGEPPGRVKAEPVHTAASVAKNLALLKARSDVTFDVGDEYEIETIGNGAYGVVS
SARRRLTGQQAIAIKKIPNAFDVVTNAKRTLRELKILKHKHDNIIAIKDILKPTVPYGEFRSVVWLDLM
ESDLHQIIHSSQPLTLEHVRYFLYQLLRGLKYMMSAQVIHRDLKPSNLLVNCCELKIGDFGMARGLCTS
PAEHQYFMTEYVATRWRAPELMLSLHEYTQAIDLWSVGCIFGEMLARRQLFPGKNYVHQLQLIMMVLGT
PSPAVIQAVGAERVRAYIQSLPPRQPVPWETVYPGADRQALSLLGRMLRFEPSARISAAAAALRHPFLAKY
HDPDDEPDCAPPDFAFDREALTRERIKEAIVAEIEDFHARREGIRQQIRFQPSLQPVASEPVC PDVEMP
SPWAPSGDCAMESPPPALPPCSDPAPDVTDLTLPAPPASELAPPKREGAIDNTKAALKAALLKSLRSR
LRDGPSAPLEAPEPRKPVTQAERQREREERKRRRRQERAKEREKRRQERERKERGAGTLGGPSTDP LAGLV
LSDNDRSLLERWTRMARPPAPAPAPAPAPAPAPAPSSAQPTSTPTGPVSQSTGPLQAGSIPGPASQPVCCP
PGPVPQAGPIAPLQTAPSTLLASQSLVPPSGLPGSGAPEVLPYFSPGPPPPDPGLTPQPSTSESPDV
NLVTQQLSKSQVEDLPPVFSGTPKGSAGYGVGFDLEEFNLQSFDMGVADGPGDQGDASASLSASLLAD
WLEGHGMNPADIESLQREIQMDSPMLLSLDPDLQEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	88.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_035971
Locus ID:	23939
UniProt ID:	Q9WVS8
RefSeq Size:	2945
Cytogenetics:	11 B2
RefSeq ORF:	2418
Synonyms:	BMK-1; BMK1; ERK-5; ERK5; Erk5-T; PRKM7
Summary:	Plays a role in various cellular processes such as proliferation, differentiation and cell survival. The upstream activator of MAPK7 is the MAPK kinase MAP2K5. Upon activation, it translocates to the nucleus and phosphorylates various downstream targets including MEF2C. EGF activates MAPK7 through a Ras-independent and MAP2K5-dependent pathway. May have a role in muscle cell differentiation. May be important for endothelial function and maintenance of blood vessel integrity. MAP2K5 and MAPK7 interact specifically with one another and not with MEK1/ERK1 or MEK2/ERK2 pathways. Phosphorylates SGK1 at Ser-78 and this is required for growth factor-induced cell cycle progression (By similarity). Involved in the regulation of p53/TP53 by disrupting the PML-MDM2 interaction (By similarity).[UniProtKB/Swiss-Prot Function]