

Product datasheet for TP517131

Map4k2 (NM_009006) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse mitogen-activated protein kinase kinase kinase kinase 2 (Map4k2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR217131 representing NM_009006 Red=Cloning site Green=Tags(s)

MALLRDVSLQDPRDRFELLQRVGAGTYGDVYKARDTVTSELAALKVIVKLDPGDDISSLQQEITILRECRH
PNVVAYIGSYLRNDRLWICMEFCGGGSLQEIHATGPLEERQIAYVCREALKGLHHLHSQGKIHRDIKGA
NLLLTQGDVKLADFGVSGELTASVAKRRSFIGTPYWMapevaaverkGGYNELCDVWALGITAIELGEL
QPPLFHLHPMRALMLMSKSSFQPPKLRDKTRWTQNFHHFLKALTKNPKKRPTAERLLQHPFTTQHLPPA
LLTQLLDKASDPHLGTLSPEDSELETHDMFPDTHSRSHHGPAERTPSEIQFHQVKGAPRRKETDPLNE
PWEEEWTLGKEELSGSLLQSVQEALERSLTIRPALELQELDSPDDAIGTIKRAPFLGLPHTTESTSGDN
AQSCSPGTLsAPPAGPGSPALLPTAWATLkQQEDRERSsSCHGLPPTPKVHMgACFSKVFNgcPLQIHAAV
TWHVPVTRDQFLVVGAEeGIYTLNLHELHEDTMEKLISQRCSWLYCVNNVLLSLSGKSTHIWAHDLPLGLF
EQRLQHQAPlSIPTNRITQRIIPRRFALSTKIPDTKGLQCRVVRNPYTGSTFLLAALPASLLLLQWYE
PLQKFLLLKNFSSPLSPAGMLEPLVLDGKELPQVCVGAEGPEGPGCRVLFHVLPLEAGLTPDILIPPEG
IPGSAQQVIQVDRDtvLVsFERCVRIVNLQGEPTAALAPELTFDFTIETVCLQDSVLAfWSHGmQGRSL
DTNEVTQEITDETRIFRVLGAHRDIIEsIPTDNPGAHsNLYILtGHQSSY

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	91.7 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_033032
Locus ID:	26412
UniProt ID:	Q61161
RefSeq Size:	2466
Cytogenetics:	19 A
RefSeq ORF:	2463
Synonyms:	AI385662; BL44; GCK; Rab8ip
Summary:	<p>Serine/threonine-protein kinase which acts as an essential component of the MAP kinase signal transduction pathway (PubMed:8643544). Acts as a MAPK kinase kinase (MAP4K) and is an upstream activator of the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway and to a lesser extent of the p38 MAPKs signaling pathway (By similarity). Required for the efficient activation of JNKs by TRAF6-dependent stimuli, including pathogen-associated molecular patterns (PAMPs) such as polyinosine-polycytidine (poly(IC)), lipopolysaccharides (LPS), lipid A, peptidoglycan (PGN), or bacterial flagellin (By similarity). To a lesser degree, IL-1 and engagement of CD40 also stimulate MAP4K2-mediated JNKs activation (By similarity). The requirement for MAP4K2/GCK is most pronounced for LPS signaling, and extends to LPS stimulation of c-Jun phosphorylation and induction of IL-8 (By similarity). Enhances MAP3K1 oligomerization, which may relieve N-terminal mediated MAP3K1 autoinhibition and lead to activation following autophosphorylation (By similarity). Mediates also the SAP/JNK signaling pathway and the p38 MAPKs signaling pathway through activation of the MAP3Ks MAP3K10/MLK2 and MAP3K11/MLK3 (By similarity). May play a role in the regulation of vesicle targeting or fusion (By similarity).[UniProtKB/Swiss-Prot Function]</p>