

Product datasheet for TP505630

Mapk13 (NM_011950) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse mitogen-activated protein kinase 13 (Mapk13), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205630 protein sequence Red =Cloning site Green =Tags(s)

MSLTRKRGFYKQDINKTAWELPKTYLAPAHVGSAYGAVCSAIDKRTGEKVAIKLSRPFQSEIFAKRAY
RELLLLKMHHEENVIGLLDVFTPASSLRSFHDFYLVMPFMQTDLQKIMGMEFSEDKVQYL VYQMLKGLKY
IHSAGIVHRDLKPGNLAVNEDCELKILDFGLARHTDTEMTGYVTRWYRAPEVILSWMHYNQTVDIWSVG
CIMAEMLTGKTLFKGKDYLDQLTQILKVTGVPGAEFVQKLKDKAAKSYIQSLPQSPKKDFTQLFPRASPQ
AADLLDKMLELDVDKRLTAAQALAHPPFFEPFRDPEEETEAQQPFDDALEHEKLSVDEWKQHIIYKEISNFS
PIARKDSRRRSGMKLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	42.1 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.
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_036080
Locus ID:	26415
UniProt ID:	Q9Z1B7



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RefSeq Size: 1406

Cytogenetics: 17 A3.3

RefSeq ORF: 1098

Synonyms: SAPK4; Serk4

Summary: Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK13 is one of the four p38 MAPKs which play an important role in the cascades of cellular responses evoked by extracellular stimuli such as proinflammatory cytokines or physical stress leading to direct activation of transcription factors such as ELK1 and ATF2. Accordingly, p38 MAPKs phosphorylate a broad range of proteins and it has been estimated that they may have approximately 200 to 300 substrates each. MAPK13 is one of the less studied p38 MAPK isoforms. Some of the targets are downstream kinases such as MAPKAPK2, which are activated through phosphorylation and further phosphorylate additional targets. Plays a role in the regulation of protein translation by phosphorylating and inactivating EEF2K. Involved in cytoskeletal remodeling through phosphorylation of MAPT and STMN1. Mediates UV irradiation induced up-regulation of the gene expression of CXCL14. Plays an important role in the regulation of epidermal keratinocyte differentiation, apoptosis and skin tumor development. Phosphorylates the transcriptional activator MYB in response to stress which leads to rapid MYB degradation via a proteasome-dependent pathway. MAPK13 also phosphorylates and down-regulates PRKD1 during regulation of insulin secretion in pancreatic beta cells.[UniProtKB/Swiss-Prot Function]