

Product datasheet for **TP508361**

Mapkap1 (NM_177345) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse mitogen-activated protein kinase associated protein 1 (Mapkap1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR208361 representing NM_177345 Red =Cloning site Green =Tags(s)

MAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVDLEKTHPPSVPGDSGSEVQGSSGETQGYIYAQSV
DITSSWDFGIRRRSNTAQRLERLRKERQNQIKCKNIQWKERNKQSAQELKSLFEKKSLKEKPPSSGKQS
ILSVRLEQCPLQLNPNFNEYSKFDGKGVHGTATKIDVYLP LHSSQDRLLPMTVVTMASARVQDLIGLI
CWQYTSEGREPKLNDNV SAYCLHIAEDDGEVDTDFPPLDSNEPIHKFGFSTLALVEKYSSPGLTSKESLF
VRINAAHGFSLIQVDNTKVTMKEILLKAVKRRKGSQKISGPQYRLEKQSEPNIAVDLESTLESQNAWEFC
LVRENSSRADGVFEEDSQIDIATVQDMLSSHYYKSFVSMIHRLRFTTDDVQLGISGDKVEIDPVTNQKAS
TKFWIKQKPISIDCDLLCACDLAEKSPSHAVFKLTYLSSH DYKHLYFESDAATVSEIVLKVNYILESRA
STARADYLAQQRKLNRRTSFSFQKEKKSGQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	59.5 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:	<u>NP_796319</u>



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Locus ID:	227743
UniProt ID:	Q8BKH7
RefSeq Size:	3044
Cytogenetics:	2 B
RefSeq ORF:	1566
Synonyms:	AI591529; D230039K05Rik; Sin1
Summary:	<p>Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Within mTORC2, MAPKAP1 is required for complex formation and mTORC2 kinase activity. MAPKAP1 inhibits MAP3K2 by preventing its dimerization and autophosphorylation. Inhibits HRAS and KRAS signaling. Enhances osmotic stress-induced phosphorylation of ATF2 and ATF2-mediated transcription. Isoform 1 is involved in ciliogenesis, regulates cilia length through its interaction with CCDC28B independently of mTORC2 complex.[UniProtKB/Swiss-Prot Function]</p>