Target of Rapamycin Complex 2 Subunit MAPKAP1 (MAPKAP1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Target of rapamycin complex 2 subunit MAPKAP1 (Mapkap1), Recombinant Protein
Full Product Name	Recombinant Rat Target of rapamycin complex 2 subunit MAPKAP1 (Mapkap1)
Product Gene Name	Mapkap1 recombinant protein
Product Synonym Gene Name	Mapkap1
Sequence	AFLDNPTIIL AHIRQSHVTS DDTGMCEMVL IDHDVDLEKT HPPSVPGDSG SEVQGSSGET QGYIYAQSVD ITSSWDFGIR RRSNTAQRLE RLRKERQNQI KCKNIQWKER NSKQSAQELK SLFEKKSLKE KPPSSGKQSI LSVRLEQCPL QLNNPFNEYS KFDGKGHVGT TATKKIDVYL PLHSSQDRLL PMTVVTMASA RVQDLIGLIC WQYTSEGREP KLNDNVSAYC LHIAEDDGEV DTDFPPLDSN EPIHKFGFST LALVEKYSSP GLTSKESLFV RINAAHGFSL IQVDNTKVTM KEILLKALKR RKGSQKISGP QYRLEKQSEP NIGVDLESTL ESQNAWEFCL VRENSSRADG VFEEDSQIDI ATVQDMLSSH HYKSFKVSMI HRLRFTTDVQ LGISGDKVEI DPVTNQKAST KFWIKQKPIS IDCDLLCACD LAEEKSPSHA VFKLTYLSSH DYKHLYFESD AATVSEIVLK VNYILESRAS TARADYFAQK QRKLNRRTSF SFQKEKKSGQ Q
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	59,043 Da
Sequence Positions	2-522, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6AYF1
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mapkap1 recombinant protein	This gene encodes a protein that is highly similar to the yeast SIN1 protein, a stress-activated protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been described. Alternate polyadenylation sites as well as alternate 3 UTRs have been identified for transcripts of this gene.
Other Notes	Small volumes of Mapkap1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Mapkap1 purchase	MBS1479902 is a recombinant protein targeting Mapkap1. Also known as Recombinant Rat Target of rapamycin complex 2 subunit MAPKAP1 (Mapkap1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Mapkap1. It may not necessarily be applicable to this product.

NCBI GI #	58865506
NCBI GeneID	296648
NCBI Accession #	NP_001011964.1
UniProt Primary Accession #	Q6AYF1
UniProt Related Accession #	Q6AYF1
GenBank Nucleotide #	NM_001011964.1
NCBI Official Full Name	target of rapamycin complex 2 subunit MAPKAP1
NCBI Official Synonym Full Names	mitogen-activated protein kinase associated protein 1
NCBI Official Symbol	Mapkap1
UniProt Protein Name	Target of rapamycin complex 2 subunit MAPKAP1
UniProt Synonym Protein Names	Mitogen-activated protein kinase 2-associated protein 1; Stress-activated map kinase-interacting protein 1; SAPK-interacting protein 1
Protein Family	Target of rapamycin complex
UniProt Gene Name	Mapkap1
UniProt Synonym Gene Names	Mip1; Sin1; TORC2 subunit MAPKAP1; SAPK-interacting protein 1
NCBI Protein Information	target of rapamycin complex 2 subunit MAPKAP1
UniProt Comments for Mapkap1	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-421'. 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. Involved in ciliogenesis, regulates cilia length through its interaction with CCDC28B independently of mTORC2 complex ().
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.