Microtubule-Associated Protein Rp/Eb Family Member 3 (MAPRE3) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Microtubule-associated protein RP/EB family member 3 (Mapre3), Recombinant Protein
Full Product Name	Recombinant Rat Microtubule-associated protein RP/EB family member 3 (Mapre3)
Product Gene Name	Mapre3 recombinant protein
Product Synonym Gene Name	Mapre3
Sequence	MAVNVYSTSV TSENLSRHDM LAWVNDSLHL NYTKIEQLCS GAAYCQFMDM LFPGCVHLRK VKFQAKLEHE YIHNFKVLQA AFKKMGVDKI IPVEKLVKGK FQDNFEFIQW FKKFFDANYD GKDYNPLLAR QGQDVAPPPN PGDQIFNKSK KLIGTAVPQR TSPTGPKNMQ TSGRLSNVAP PCILRKNPPS ARNGGHEADA QILELNQQLL DLKLTVDGLE KERDFYFSKL RDIELICQEH ESENSPVISG IIGILYATEE GFAPPEDDEI EEHQQEDQDE Y
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	31,966 Da
Sequence Positions	1-281, 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 Q5XIT1
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mapre3 recombinant protein	This protein is a member of the RP EB family of genes. The protein localizes to the cytoplasmic microtubule network and binds APCL, a homolog of the adenomatous polyposis coli tumor suppressor gene.
Other Notes	Small volumes of Mapre3 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 Mapre3 purchase	MBS1432618 is a recombinant protein targeting Mapre3. Also known as Recombinant Rat Microtubule-associated protein RP/EB family member 3 (Mapre3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Mapre3. It may not necessarily be applicable to this product.

NCBI GI #	56090319
NCBI GeneID	298848

NCBI Accession #	NP_001007657.1
UniProt Primary Accession #	Q5XIT1
UniProt Related Accession #	Q5XIT1
GenBank Nucleotide #	NM_001007656.1
NCBI Official Full Name	microtubule-associated protein RP/EB family member 3
NCBI Official Synonym Full Names	microtubule-associated protein, RP/EB family, member 3
NCBI Official Symbol	Mapre3
UniProt Protein Name	Microtubule-associated protein RP/EB family member 3
UniProt Synonym Protein Names	EB1 protein family member 3; EBF3; End-binding protein 3; EB3; RP3
Protein Family	Microtubule-associated protein RP/EB family
UniProt Gene Name	Mapre3
UniProt Synonym Gene Names	EBF3; EB3
NCBI Protein Information	microtubule-associated protein RP/EB family member 3
UniProt Comments for Mapre3	Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton. Promotes microtubule growth. May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes. Also acts as a regulator of minus-end microtubule organization: interacts with the complex formed by AKAP9 and PDE4DIP, leading to recruit CAMSAP2 to the Golgi apparatus, thereby tethering non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement. Promotes elongation of CAMSAP2-decorated microtubule stretches on the minus-end of microtubules (). May play a role in cell migration ().
Research Articles on Mapre3	**1.** EB3 and EB1 coordinate a molecular and functional interplay between ankyrin G (ankG)and the axon initial segment microtubules that supports the central role of ankG in the maintenance of neuronal polarity
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