KIFAP3 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	KIFAP3, Blocking Peptide
Full Product Name	KIFAP3 Peptide - middle region
Product Gene Name	KIFAP3 blocking peptide
Product Synonym Gene Name	FLJ22818; KAP3; SMAP; Smg-GDS; dJ190I16.1; KAP-3
Sequence	WLEMVESRQM DESEQYLYGD DRIEPYIHEG DILERPDLFY NSDGLIASEG
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	KIFAP3 peptide (MBS3237018) is used for blocking the activity of KIFAP3 antibody (MBS3212071)
Molecular Weight	91kDa
OMIM	601836
Product Categories/Family for KIFAP3 blocking peptide	Peptide
Applications Tested/Suitable for KIFAP3 blocking peptide	Western Blot (WB)
Related Product Information for KIFAP3 blocking peptide	This is a synthetic peptide designed for use in combination with anti-KIFAP3 Antibody, made Target Description: The small G protein GDP dissociation stimulator (smg GDS) is a regulator protein having two activities on a group of small G proteins including the Rho and Rap1 family members and Ki-Ras; one is to stimulate their GDP/GTP exchange reactions, and the other is to inhibit their interactions with membranes. The protein encoded by this gene contains 9 'Armadillo' repeats and interacts with the smg GDS protein through these repeats. This protein, which is highly concentrated around the endoplasmic reticulum, is phosphorylated by v-src, and this phosphorylation reduces the affinity of the protein for smg GDS. It is thought that this protein serves as a linker between human chromosome-associated polypeptide (HCAP) and KIF3A/B, a kinesin superfamily protein in the nucleus, and that it plays a role in the interaction of chromosomes with an ATPase motor protein.
Other Notes	Small volumes of KIFAP3 blocking peptide 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 KIFAP3 purchase	MBS3237018 is a blocking peptide targeting KIFAP3. Also known as KIFAP3 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KIFAP3. It may not necessarily be applicable to this product.

NCBI GI #	18105054
NCBI GeneID	22920
NCBI Accession #	NP_055785
UniProt Primary Accession #	Q92845

UniProt Related Accession #	Q92845
GenBank Nucleotide #	NM_014970
NCBI Official Full Name	kinesin-associated protein 3 isoform 1
NCBI Official Synonym Full Names	kinesin associated protein 3
NCBI Official Symbol	KIFAP3
NCBI Official Synonym Symbols	FLA3; KAP3; SMAP; KAP-1; KAP-3; Smg-GDS; dJ190I16.1
UniProt Protein Name	Kinesin-associated protein 3
UniProt Synonym Protein Names	Smg GDS-associated protein
Protein Family	Kinesin-associated protein
UniProt Gene Name	KIFAP3
UniProt Synonym Gene Names	KIF3AP; SMAP; KAP-3; KAP3
UniProt Entry Name	KIFA3_HUMAN
NCBI Protein Information	kinesin-associated protein 3
NCBI Summary for KIFAP3	The small G protein GDP dissociation stimulator (smg GDS) is a regulator protein having two activities on a group of small G proteins including the Rho and Rap1 family members and Ki-Ras; one is to stimulate their GDP/GTP exchange reactions, and the other is to inhibit their interactions with membranes. The protein encoded by this gene contains 9 'Armadillo' repeats and interacts with the smg GDS protein through these repeats. This protein, which is highly concentrated around the endoplasmic reticulum, is phosphorylated by v-src, and this phosphorylation reduces the affinity of the protein for smg GDS. It is thought that this protein serves as a linker between human chromosome-associated polypeptide (HCAP) and KIF3A/B, a kinesin superfamily protein in the nucleus, and that it plays a role in the interaction of chromosomes with an ATPase motor protein. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]
UniProt Comments for KIFAP3	KIFAP3: Involved in tethering the chromosomes to the spindle pole and in chromosome movement. Binds to the tail domain of the KIF3A/KIF3B heterodimer to form a heterotrimeric KIF3 complex and may regulate the membrane binding of this complex. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 1q24.2 Cellular Component: microtubule cytoskeleton; Golgi apparatus; centrosome; condensed nuclear chromosome; endoplasmic reticulum; spindle microtubule; kinesin II complex; axoneme; cytosol; photoreceptor connecting cilium Molecular Function: protein binding; kinesin binding Biological Process: negative regulation of cell proliferation; protein localization; positive regulation of calcium-dependent cell-cell adhesion; organelle organization and biogenesis; antigen processing and presentation of exogenous peptide antigen via MHC class II; protein complex assembly; blood coagulation; signal transduction; microtubule-based movement; microtubule-based process; negative regulation of apoptosis
Research Articles on KIFAP3	**1.** This study does not show an influence of KIFAP3 variants on survival in the studied Swiss and Swedish cohort
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