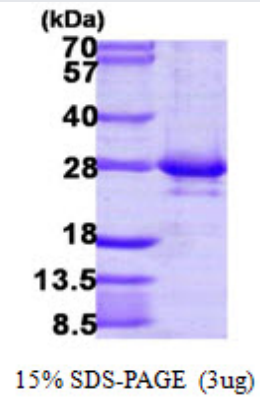
RAB14 Recombinant Protein

PRODUCT OVERVIEW

Product Name	RAB14, Recombinant Protein
Full Product Name	RAB14, 1-215aa, Human, His tag, E Coli
Product Gene Name	RAB14 recombinant protein
Product Synonym Names	Ras-related protein Rab-14; FBP; RAB-14
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMATAPYN YSYIFKYIII GDMGVGKSCL LHQFTEKKFM ADCPHTIGVE FGTRIIEVSG QKIKLQIWDT AGQERFRAVT RSYYRGAAGA LMVYDITRRS TYNHLSSWLT DARNLTNPNT VIILIGNKAD LEAQRDVTYE EAKQFAEENG LLFLEASAKT GENVEDAFLE AAKKIYQNIQ DGSLDLNAAE SGVQHKPSAP QGGRLTSEPQ PQREGCGC
Host	E Coli
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Purity/Purification	90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	26.3 kDa (238aa), confirmed by MALDI-TOF
OMIM	AF152463 mRNA
3D Structure	ModBase 3D Structure for P61106
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for RAB14 recombinant protein	Signal Transduction
Applications Tested/Suitable for RAB14 recombinant protein	SDS-PAGE
Related Product Information for RAB14 recombinant protein	RAB14 is a member of the RAB protein family, low molecular mass monomeric GTPases localized on the cytoplasmic surfaces of distinct membrane bound organelles. This protein is thought to be involved in vesicular trafficking and neurotransmitter release throughout the body and is expressed at high levels in brain, lung, kidney, spleen and thymus. It is involved in the biosynthetic/recycling pathway between the Golgi and endosomal compartments. Recombinant human RAB14 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product References and Citations for RAB14 recombinant protein	Junutula JR. et al. (2004) Mol Biol Cell. 15:2218-29.; Olkkonen V.M. et al. (1993) J. Cell Sci. 106:1249-61.
Other Notes	Small volumes of RAB14 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 RAB14 purchase	MBS204466 is a recombinant protein targeting RAB14. Also known as RAB14, 1-215aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of RAB14 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB14. It may not necessarily be applicable to this product.

NCBI GI #	19923483
NCBI GeneID	51552
NCBI Accession #	NP_057406
UniProt Primary Accession #	P61106
UniProt Secondary Accession #	P35287; Q5JVD4; Q6Q7K5; Q969L0; Q9UI11; B3KR31
UniProt Related Accession #	P61106
GenBank Nucleotide #	NM_016322.3
NCBI Official Full Name	ras-related protein Rab-14
NCBI Official Synonym Full Names	RAB14, member RAS oncogene family
NCBI Official Symbol	RAB14
NCBI Official Synonym Symbols	FBP; RAB-14
UniProt Protein Name	Ras-related protein Rab-14
Protein Family	Ras-related protein
UniProt Gene Name	RAB14
NCBI Protein Information	ras-related protein Rab-14
NCBI Summary for RAB14	RAB14 belongs to the large RAB family of low molecular mass GTPases that are involved in intracellular membrane trafficking. These proteins act as molecular switches that flip between an inactive GDP-bound state and an active GTP-bound state in which they recruit downstream effector proteins onto membranes (Junutula et al., 2004 [PubMed 15004230]).[supplied by OMIM, Mar 2009]
UniProt Comments for RAB14	Involved in membrane trafficking between the Golgi complex and endosomes during early embryonic development. Regulates the Golgi to endosome transport of FGFR-containing vesicles during early development, a key process for developing basement membrane and epiblast and primitive endoderm lineages during early postimplantation development. May act by modulating the kinesin KIF16B-cargo association to endosomes (). Regulates, together with its guanine nucleotide exchange factor DENND6A, the specific endocytic transport of ADAM10, N-cadherin/CDH2 shedding and cell-cell adhesion.
Research Articles on RAB14	**1.** The results from this analysis indicated that Rab11a, Rab11c(Rab25) and Rab14 were expressed in a wide range of cell lines, including the human placental trophoblastic BeWo cell line.

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