RAB21 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	RAB21, Blocking Peptide
Full Product Name	RAB21 Antibody (C-term) Blocking peptide
Product Gene Name	RAB21 blocking peptide
Product Synonym Gene Name	KIAA0118
Product Synonym Names	Ras-related protein Rab-21; RAB21; KIAA0118
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of RAB21. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	RAB21 peptide (MBS9219876) is used for blocking the activity of RAB21 antibody (MBS9200750)
Molecular Weight	24,348 Da
OMIM	612398
Cellular Location	Endoplasmic reticulum membrane; Lipid-anchor. Golgi apparatus, trans- Golgi network. Golgi apparatus membrane. Early endosome membrane. Cytoplasmic vesicle membrane Cleavage furrow. Note: Colocalizes with ANKRD27 and VAMP7 in neurites (By similarity). In nonpolarized epithelial Caco-2 cells, found in the endoplasmic reticulum; in polarized cells, observed in vesicles in the apical cytoplasm. During mitosis, in mid- telophase, localized in the ingressing cleavage furrow. In late telophase, detected at the opposite poles of the daughter cells, in vesicles at the base of lamellipodia formed by the separating daughter cells.
Tissue Location	Widely expressed. In jejunal tissue, predominantly expressed in the apical region of the epithelial cell layer of the villi, weak expression, if any, in the crypt epithelium. Capillary endothelium and some cell types in the lamina propria also show expression
Related Product Information for RAB21 blocking peptide	Regulates integrin internalization and recycling, but does not influence the traffic of endosomally translocated receptors in general. As a result, may regulate cell adhesion and migration (By similarity). During the mitosis of adherent cells, controls the endosomal trafficking of integrins which is required for the successful completion of cytokinesis. Involved in neurite growth (By similarity).
Other Notes	Small volumes of RAB21 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 RAB21 purchase	MBS9219876 is a blocking peptide targeting RAB21. Also known as RAB21 Antibody (C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB21. It may not necessarily be applicable to this product.

NCBI GI #	13633613
NCBI GeneID	23011
NCBI Accession #	Q9UL25.3
UniProt Primary Accession #	Q9UL25
UniProt Secondary Accession #	Q14466; Q569H3

UniProt Related Accession #	Q9UL25
NCBI Official Full Name	Ras-related protein Rab-21
NCBI Official Synonym Full Names	RAB21, member RAS oncogene family
NCBI Official Symbol	RAB21
UniProt Protein Name	Ras-related protein Rab-21
Protein Family	Ras-related protein
UniProt Gene Name	RAB21
UniProt Synonym Gene Names	KIAA0118
UniProt Entry Name	RAB21_HUMAN
NCBI Protein Information	ras-related protein Rab-21
NCBI Summary for RAB21	This gene belongs to the Rab family of monomeric GTPases, which are involved in the control of cellular membrane traffic. The encoded protein plays a role in the targeted trafficking of integrins via its association with integrin alpha tails. As a consequence, the encoded protein is involved in the regulation of cell adhesion and migration. Expression of this gene is associated with a poor prognosis for glioma patients. This gene is downregulated by the tumor suppressor miR-200b, and miRNA-200b is itself downregulated in glioma tissues. [provided by RefSeq, Nov 2015]
UniProt Comments for RAB21	RAB21: Regulates integrin internalization and recycling, but does not influence the traffic of endosomally translocated receptors in general. As a result, may regulate cell adhesion and migration. During the mitosis of adherent cells, controls the endosomal trafficking of integrins which is required for the successful completion of cytokinesis. Belongs to the small GTPase superfamily. Rab family. Protein type: Motility/polarity/chemotaxis; G protein, monomeric; G protein, monomeric, Rab Chromosomal Location of Human Ortholog: 12q21.1 Cellular Component: endosome; focal adhesion; internal side of plasma membrane; trans-Golgi network; vesicle membrane Molecular Function: GDP binding; GTP binding; GTPase activity; protein binding Biological Process: positive regulation of receptor-mediated endocytosis; regulation of exocytosis
Research Articles on RAB21	**1.** Starvation-induced MTMR13 and RAB21 activity regulates VAMP8 to promote autophagosome-lysosome fusion.
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