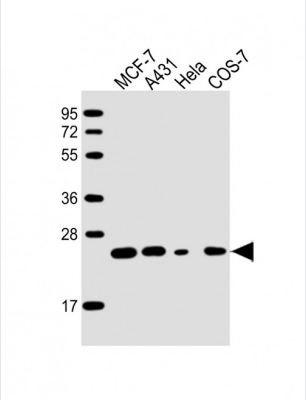
RAB21 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	RAB21, Monoclonal Antibody
Full Product Name	RAB21 Antibody
Product Gene Name	anti-RAB21 antibody
Product Synonym Gene Name	KIAA0118
Product Synonym Names	Ras-related protein Rab-21; RAB21; KIAA0118
Clonality	Monoclonal
Isotype	IgG2b,kappa
Host	Mouse
Species Reactivity	Human, African Green Monkey
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Specificity	This RAB21 antibody is generated from a mouse immunized with a recombinant protein between 1-225 amino acids from the human RAB21.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	24348 Da
OMIM	612398
3D Structure	ModBase 3D Structure for Q9UL25
Subtitle	Purified Mouse Monoclonal Antibody (Mab)
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. {ECO:0000250|UniProtKB:P35282, ECO:0000250|UniProtKB:Q6AXT5}.
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.
Antigen Type	Recombinant Protein
Product Categories/Family for anti-RAB21 antibody	Crown Antibodies; Primary Antibodies; Cancer; Cell Biology; Signal Transduction
Applications Tested/Suitable for anti-RAB21 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-RAB21 antibody	WB:~~1:2000

Related Product Information for anti-RAB21 antibody	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).
Product References and Citations for anti-RAB21 antibody	Opdam F.J.M.,et al.Eur. J. Cell Biol. 79:308-316 (2000). Bienvenut W.V.,et al.Submitted (JUN-2005) to UniProtKB. Nagase T.,et al.DNA Res. 2:37-43 (1995). Simpson J.C.,et al.J. Cell Sci. 117:6297-6311 (2004). Zhang X.,et al.J. Cell Sci. 119:1053-1062 (2006).
Other Notes	Small volumes of anti-RAB21 antibody 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	MBS9217065 is an antibody targeting RAB21. Also known as RAB21 Antibody. Reactive in Human, African Green Monkey. Host: Mouse.



Western Blot (WB) of anti-RAB21 antibody
All lanes : Anti-RAB21 Antibody at 1:2000 dilutionLane 1: MCF-7 whole cell lysateLane 2: A431 whole cell lysateLane 3: Hela whole cell lysateLane 4: COS-7 whole cell lysateLysates/proteins at 20 ug per lane. SecondaryGoat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 24 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL DETAILS

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

NCBI GI #	7661922
NCBI GeneID	23011
NCBI Accession #	NP_055814.1
UniProt Primary Accession #	Q9UL25
UniProt Secondary Accession #	Q14466; Q569H3
UniProt Related Accession #	Q9UL25
GenBank Nucleotide #	NM_014999.3
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: G protein, monomeric, Rab; G protein, monomeric; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 12q21.1 Cellular Component: cleavage furrow; cytoplasmic vesicle membrane; endoplasmic reticulum membrane; 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: anterograde axon cargo transport; intracellular protein transport; metabolic process; nucleocytoplasmic transport; positive regulation of dendrite morphogenesis; positive regulation of receptor-mediated endocytosis; regulation of axon extension; regulation of exocytosis; small GTPase mediated signal transduction
Research Articles on RAB21	**1.** Starvation-induced MTMR13 and RAB21 activity regulates VAMP8 to promote autophagosome-lysosome fusion.
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