RAB21 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RAB21, Polyclonal Antibody
Full Product Name	RAB21, CT (RAB21, KIAA0118, Ras-related protein Rab-21) (MaxLight 550)
Product Gene Name	anti-RAB21 antibody
Product Synonym Names	RAB21; KIAA0118; Ras-related protein Rab-21
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24,348 Da
OMIM	612398
3D Structure	ModBase 3D Structure for Q9UL25
Immunogen	RAB21 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 167-197 amino acids from the C-terminal region of human RAB21.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-RAB21 antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-RAB21 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-RAB21 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-RAB21 antibody	RAB21 belongs to the RAB family of small GTP-binding proteins that regulate intracellular vesicle targeting (Opdam et al., 2000 [PubMed 10887961]).
Product References and Citations for anti-RAB21 antibody	Burgo, A., et al. EMBO Rep. 10(10):1117-1124(2009). Pellinen, T., et al. Dev. Cell 15(3):371-385(2008). Delprato, A., et al. Nat. Struct. Mol. Biol. 14(5):406-412(2007). Pellinen, T., et al. J. Cell Biol. 173(5):767-780(2006). Eathiraj, S., et al. Nature 436(7049):415-419(2005).
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	MBS6339609 is an antibody targeting RAB21. Also known as RAB21, CT (RAB21, KIAA0118, Ras-related protein Rab-21) (MaxLight 550). Reactive in Human. Host: Rabbit.

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_014999.2
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. [provided by RefSeq, Aug 2013]
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; Motility/polarity/chemotaxis; G protein, monomeric, Rab Chromosomal Location of Human Ortholog: 12q21.1 Cellular Component: endoplasmic reticulum membrane; internal side of plasma membrane; focal adhesion; cytoplasmic vesicle membrane; early endosome; vesicle membrane; trans-Golgi network; endosome; cleavage furrow Molecular Function: GTPase activity; protein binding; GDP binding; GTP binding Biological Process: regulation of exocytosis; intracellular protein transport; metabolic process; regulation of endocytosis; Rab protein signal transduction; positive regulation of receptor-mediated endocytosis
Research Articles on RAB21	**1.** High RAB21 expression is associated with glioma.

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