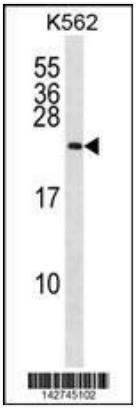
RAB27A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RAB27A, Polyclonal Antibody
Full Product Name	RAB27A, CT (RAB27A, RAB27, Ras-related protein Rab-27A, GTP-binding protein Ram) (PE)
Product Gene Name	anti-RAB27A antibody
Product Synonym Names	RAB27A; RAB27; Ras-related protein Rab-27A; GTP-binding protein Ram
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 R-Phycoerythrin (PE).
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: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24,041 Da
OMIM	gene 607624
3D Structure	ModBase 3D Structure for P51159
Immunogen	RAB27A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 136-164 amino acids from the C-terminal region of human RAB27A.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-RAB27A antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-RAB27A antibody	Western Blot (WB), FLISA
Application Notes for anti-RAB27A antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RAB27A antibody	The protein encoded by this gene belongs to the small GTPase superfamily, Rab family. The protein is membrane-bound and may be involved in protein transport and small GTPase mediated signal transduction. Mutations in this gene are associated with Griscelli syndrome type 2. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified.
Product References and Citations for anti-RAB27A antibody	Ohbayashi, N., et al. Pigment Cell Melanoma Res 23(3):365-374(2010). Davila, S., et al. Genes Immun. 11(3):232-238(2010). Meeths, M., et al. Pediatr Blood Cancer 54(4):563-572(2010). Chattopadhyay, I., et al. Mutat. Res. 696(2):130-138(2010). Wood, S.M., et al. Blood 114(19):4117-4127(2009).

Other Notes	Small volumes of anti-RAB27A 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 RAB27A purchase	MBS6339667 is an antibody targeting RAB27A. Also known as RAB27A, CT (RAB27A, RAB27, Ras-related protein Rab-27A, GTP-binding protein Ram) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-RAB27A antibody
RAB27A Antibody (C-term) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the RAB27A antibody detected the RAB27A protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB27A. It may not necessarily be applicable to this product.

NCBI GI #	19923264
NCBI GeneID	5873
NCBI Accession #	NP_004571.2
UniProt Primary Accession #	P51159
UniProt Secondary Accession #	O00195; Q6FI40; Q9UIR9; Q9Y5U3
UniProt Related Accession #	P51159
GenBank Nucleotide #	NM_004580.4
NCBI Official Full Name	ras-related protein Rab-27A
NCBI Official Synonym Full Names	RAB27A, member RAS oncogene family
NCBI Official Symbol	RAB27A
NCBI Official Synonym Symbols	GS2; RAM; RAB27; HsT18676
UniProt Protein Name	Ras-related protein Rab-27A
UniProt Synonym Protein Names	GTP-binding protein Ram
Protein Family	Ras-related protein
UniProt Gene Name	RAB27A
UniProt Synonym Gene Names	RAB27; Rab-27
UniProt Entry Name	RB27A_HUMAN
NCBI Protein Information	ras-related protein Rab-27A; GTP-binding protein Ram; rab-27

UniProt Comments for RAB27A	RAB27A: Plays a role in cytotoxic granule exocytosis in lymphocytes. Required for both granule maturation and granule docking and priming at the immunologic synapse. Defects in RAB27A are a cause of Griscelli syndrome type 2 (GS2). Griscelli syndrome is a rare autosomal recessive disorder that results in pigmentary dilution of the skin and hair, the presence of large clumps of pigment in hair shafts, and an accumulation of melanosomes in melanocytes. GS2 patients also develop an uncontrolled T-lymphocyte and macrophage activation syndrome, known as hemophagocytic syndrome, leading to death in the absence of bone marrow transplantation. Neurological impairment is present in some patients, likely as a result of hemophagocytic syndrome. Belongs to the small GTPase superfamily. Rab family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: G protein, monomeric; G protein, monomeric, Rab Chromosomal Location of Human Ortholog: 15q15-q21.1 Cellular Component: Golgi apparatus; photoreceptor outer segment; lysosome; secretory granule membrane; apical plasma membrane; dendrite; late endosome; melanosome; secretory granule Molecular Function: GTPase activity; protein domain specific binding; protein binding; GDP binding; GTP binding; myosin V binding Biological Process: exocytosis; natural killer cell degranulation; cytotoxic T cell degranulation; melanosome localization; protein secretion; synaptic vesicle transport; melanosome transport; antigen processing and presentation; intracellular protein transport; cellular protein metabolic process; positive regulation of phagocytosis; melanocyte differentiation; Rab protein signal transduction; blood coagulation; vesicle docking during exocytosis; protein targeting; positive regulation of exocytosis Disease: Griscelli Syndrome, Type 2
Research Articles on RAB27A	**1.** Rab27a was identified as a prognostic biomaker by mRNA profiling, correlated with malignant progression and subtype preference in gliomas.
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