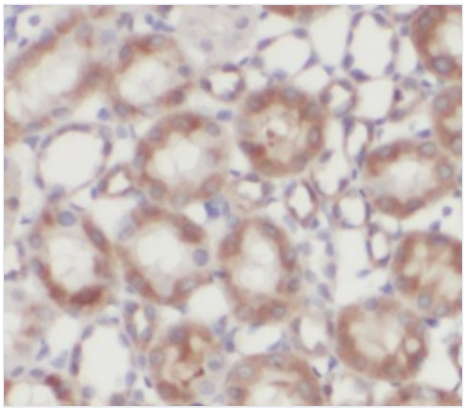
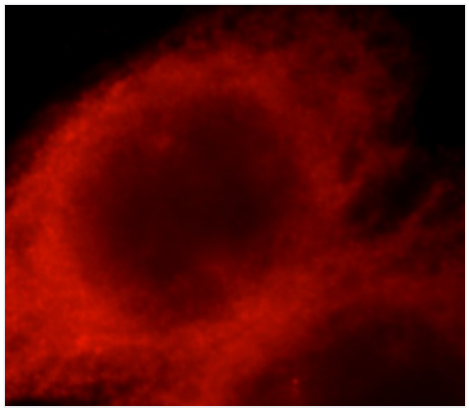
RAB27A Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

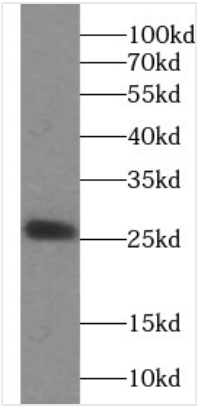
Product Name	RAB27A, Monoclonal Antibody
Full Product Name	RAB27A Mouse Monoclonal
Product Gene Name	anti-RAB27A antibody
Clonality	Monoclonal
Isotype	IgG1
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>=95% as determined by SDS-PAGE Protein A+G purification
Preparation and Storage	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20 degree C for 24 months (Avoid repeated freeze / thaw cycles.)
Molecular Weight	24,041 Da
OMIM	603868
3D Structure	ModBase 3D Structure for P51159
Immunogen	RAB27A, member RAS oncogene family
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-RAB27A antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-RAB27A antibody	MBS7603243 is an antibody targeting RAB27A. Also known as RAB27A Mouse Monoclonal. Reactive in Human. Host: Mouse.
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.



Immunohistochemistry (IHC) of anti-RAB27A antibody
Immunohistochemistry of paraffin-embedded human kidney using MBS7603243 (RAB27A antibody) at dilution of 1:50



Immunofluorescence (IF) of anti-RAB27A antibody
Immunofluorescent analysis of HepG2 cells, using RAB27A antibody MBS7603243 at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red)



Western Blot (WB) of anti-RAB27A antibody
K-562 cells were subjected to SDS PAGE followed by western blot with MBS7603243 (RAB27A antibody) at dilution of 1:1000

ADDITIONAL DETAILS

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

NCBI GI #	49456347
NCBI GeneID	5873
NCBI Accession #	CAG46494.1
UniProt Primary Accession #	P51159
UniProt Secondary Accession #	O00195; Q6FI40; Q9UIR9; Q9Y5U3
UniProt Related Accession #	P51159
NCBI Official Full Name	RAB27A, partial
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
NCBI Summary for RAB27A	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. [provided by RefSeq, Jul 2008]

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, Rab; G protein, monomeric Chromosomal Location of Human Ortholog: 15q15-q21.1 Cellular Component: apical plasma membrane; cytosol; dendrite; Golgi apparatus; late endosome; lysosome; melanosome; photoreceptor outer segment; secretory granule; secretory granule membrane Molecular Function: GDP binding; GTP binding; GTPase activity; myosin V binding; protein binding; protein domain specific binding Biological Process: antigen processing and presentation; blood coagulation; cytotoxic T cell degranulation; exocytosis; melanocyte differentiation; melanosome localization; melanosome transport; metabolic process; natural killer cell degranulation; nucleocytoplasmic transport; positive regulation of exocytosis; positive regulation of phagocytosis; protein targeting; small GTPase mediated signal transduction; synaptic vesicle transport Disease: Griscelli Syndrome, Type 2
Research Articles on RAB27A	**1.** Experimental data are reviewed with a focus on the secretory Rab27 family of small GTPases and their implications in cancer progression.
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