RAB11A Antibody – Rabbit

PRODUCT OVERVIEW

Product Name	RAB11A, Antibody
Full Product Name	RAB11A Antibody
Product Gene Name	anti-RAB11A antibody
Product Synonym Names	RAB11A; MGC1490; YL8
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity purification
Preparation and Storage	Store at-20 degree C or-80 degree C. Avoid freeze/thaw cycles.
Molecular Weight	24kDa
OMIM	605570
3D Structure	ModBase 3D Structure for P62491
Immunogen	Recombinant protein of human RAB11A
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-RAB11A antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RAB11A antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-RAB11A antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-RAB11A antibody	Rab11a, Rab11b and Rab25 are members of the Rab11 family of small Ras-like GTPases. Rab11 (isoforms Rab11a and Rab11b) functions as a key regulator in the recycling of perinuclear, plasma membrane and Golgi compartment endosomes (1, 2). Despite some overlap, distinct differences exist between Rab11a and Rab11b in both their cellular distribution and functional roles. Rab11a is ubiquitously expressed while Rab11b is found mainly in the heart and brain (3, 4). Like other Rab proteins, Rab11 exerts its function via interactions with Rab11 family interacting proteins (FIPs). While there are three distinct classes of FIPs, all appear to share a conserved carboxy-terminal Rab-binding domain that allows Rab-FIP protein interaction. When bound together, these proteins are thought to regulate membrane-associated protein sorting (5, 6).
Product References and Citations for anti-RAB11A antibody	1. Ullrich, O. et al. (1996) J. Cell Biol. 135, 913-924. 2. Chen, W. et al. (1998) Mol. Biol. Cell 9, 3241-3257. 3. Lapierre, L.A. et al. (2003) Exp. Cell Res. 290, 322-331. 4. Khvotchev, M.V. et al. (2003) J. Neurosci. 23, 10531-10539. 5. Junutula, J.R. et al. (2004) J. Biol. Chem. 279, 33430-33437. 6. Hales, C.M. et al. (2001) J. Biol. Chem. 276, 39067-39075.
Other Notes	Small volumes of anti-RAB11A 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 RAB11A purchase	MBS8501884 is an antibody targeting RAB11A. Also known as RAB11A Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB11A. It may not necessarily be applicable to this product.

NCBI GI #	332205939
NCBI GeneID	8766
NCBI Accession #	NP_001193765.1
UniProt Primary Accession #	P62491
UniProt Secondary Accession #	P24410; Q5TZN9; Q9JLX1; B2R4B6; B4DT13
UniProt Related Accession #	P62491
GenBank Nucleotide #	NM_001206836.1
NCBI Official Full Name	ras-related protein Rab-11A isoform 2
NCBI Official Synonym Full Names	RAB11A, member RAS oncogene family
NCBI Official Symbol	RAB11A
NCBI Official Synonym Symbols	YL8
UniProt Protein Name	Ras-related protein Rab-11A
UniProt Synonym Protein Names	YL8
Protein Family	Ras-related protein
UniProt Gene Name	RAB11A
UniProt Synonym Gene Names	RAB11; Rab-11
NCBI Protein Information	ras-related protein Rab-11A
NCBI Summary for RAB11A	The protein encoded by this gene belongs to the Rab family of the small GTPase superfamily. It is associated with both constitutive and regulated secretory pathways, and may be involved in protein transport. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]
UniProt Comments for RAB11A	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab regulates endocytic recycling. Acts as a major regulator of membrane delivery during cytokinesis. Together with MYO5B and RAB8A participates in epithelial cell polarization. Together with RAB3IP, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis. Together with MYO5B participates in CFTR trafficking to the plasma membrane and TF (Transferrin) recycling in nonpolarized cells. Required in a complex with MYO5B and RAB11FIP2 for the transport of NPC1L1 to the plasma membrane. Participates in the sorting and basolateral transport of CDH1 from the Golgi apparatus to the plasma membrane. Regulates the recycling of FCGRT (receptor of Fc region of monomeric Ig G) to basolateral membranes. May also play a role in melanosome transport and release from melanocytes.
Research Articles on RAB11A	**1.** Study suggestes that Rab11a serves as an important oncoprotein and a regulator of YAP in human non-small cell lung cancer.
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