

**RAB11A Antibody**  
Rabbit mAb  
Catalog # AP90341

## Specification

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### RAB11A Antibody - Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IP                 |
| Primary Accession | <a href="#">P62491</a> |
| Reactivity        | Rat                    |
| Clonality         | Monoclonal             |

#### Other Names

MGC1490; Rab 11; Rab 11A; Rab-11; RAB11 A; RAB11; Rab11a; RAB11A member RAS oncogene family; Ras related protein Rab 11A; Ras related protein Rab11A; Ras-related protein Rab-11A; RB11A; YL 8; YL8;

|               |            |
|---------------|------------|
| Isotype       | Rabbit IgG |
| Host          | Rabbit     |
| Calculated MW | 24394 Da   |

### RAB11A Antibody - Additional Information

|                              |   |
|------------------------------|---|
| Purification                 | Affinity-chromatography   |
| Immunogen                    | A synthesized peptide derived from human RAB11A   |
| Description                  | 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. 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. Like other Rab proteins, Rab11 exerts its function via interactions with Rab11 family interacting proteins (FIPs). Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage Condition and Buffer |   |

### RAB11A Antibody - Protein Information

Name RAB11A ([HGNC:9760](#))

#### Function

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 (PubMed:<a href="http://www.uniprot.org/citations/15601896" target="\_blank">15601896</a>, PubMed:<a href="http://www.uniprot.org/citations/15689490" target="\_blank">15689490</a>, PubMed:<a href="http://www.uniprot.org/citations/17462998" target="\_blank">17462998</a>, PubMed:<a href="http://www.uniprot.org/citations/19542231" target="\_blank">19542231</a>, PubMed:<a href="http://www.uniprot.org/citations/20026645" target="\_blank">20026645</a>, PubMed:<a href="http://www.uniprot.org/citations/20890297" target="\_blank">20890297</a>, PubMed:<a href="http://www.uniprot.org/citations/21282656" target="\_blank">21282656</a>). The small Rab GTPase RAB11A regulates endocytic recycling (PubMed:<a href="http://www.uniprot.org/citations/20026645" target="\_blank">20026645</a>). Forms a functional Rab11/FIP3/dynein complex that regulates the movement of peripheral sorting endosomes (SE) along microtubule tracks toward the microtubule organizing center/centrosome, generating the endosomal recycling compartment (ERC) (PubMed:<a href="http://www.uniprot.org/citations/20026645" target="\_blank">20026645</a>). Acts as a major regulator of membrane delivery during cytokinesis (PubMed:<a href="http://www.uniprot.org/citations/15601896" target="\_blank">15601896</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/15689490" target="\_blank">15689490</a>, PubMed:<a href="http://www.uniprot.org/citations/17462998" target="\_blank">17462998</a>, PubMed:<a href="http://www.uniprot.org/citations/19542231" target="\_blank">19542231</a>, PubMed:<a href="http://www.uniprot.org/citations/20890297" target="\_blank">20890297</a>, PubMed:<a href="http://www.uniprot.org/citations/21282656" target="\_blank">21282656</a>). Promotes Rabin8/RAB3IP preciliary vesicular trafficking to mother centriole by forming a ciliary targeting complex containing Rab11, ASAP1, Rabin8/RAB3IP, RAB11FIP3 and ARF4, thereby regulating ciliogenesis initiation (PubMed:<a href="http://www.uniprot.org/citations/25673879" target="\_blank">25673879</a>, PubMed:<a href="http://www.uniprot.org/citations/31204173" target="\_blank">31204173</a>). On the contrary, upon LPAR1 receptor signaling pathway activation, interaction with phosphorylated WDR44 prevents Rab11-RAB3IP-RAB11FIP3 complex formation and cilia growth (PubMed:<a href="http://www.uniprot.org/citations/31204173" target="\_blank">31204173</a>). Participates in the export of a subset of neosynthesized proteins through a Rab8-Rab10-Rab11- endosomal dependent export route via interaction with WDR44 (PubMed:<a href="http://www.uniprot.org/citations/32344433" target="\_blank">32344433</a>).

### Cellular Location

Cell membrane; Lipid-anchor. Endosome membrane. Recycling endosome membrane; Lipid-anchor. Cleavage furrow. Cytoplasmic vesicle, phagosome. Cytoplasmic vesicle membrane. Golgi apparatus. Golgi apparatus, trans-Golgi network. Note=Localized to WDR44-positive endosomes and tubules (PubMed:32344433). Translocates with RAB11FIP2 from the vesicles of the endocytic recycling compartment (ERC) to the plasma membrane (PubMed:11994279). During interphase, localized in vesicles continuously moving from peripheral sorting endosomes towards the pericentrosomal ERC (PubMed:20026645). Localizes to the cleavage furrow (PubMed:15601896). Colocalizes with PARD3, PRKCI, EXOC5, OCLN, PODXL and RAB8A in apical membrane initiation sites (AMIS) during the generation of apical surface and lumenogenesis (PubMed:20890297) Recruited to phagosomes containing S.aureus or M.tuberculosis (PubMed:21255211). Localized to rhodopsin transport carriers when interacting with RAB11AFIP3

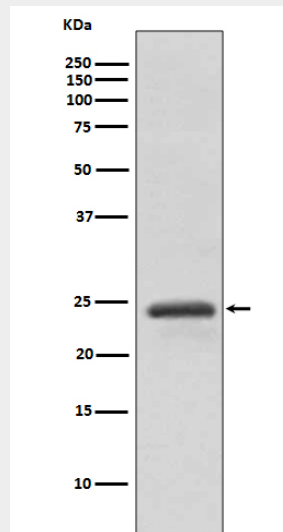
and ASAP1 in photoreceptors (PubMed:25673879).

### **RAB11A Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **RAB11A Antibody - Images**



Western blot analysis of RAB11A expression in HeLa cell lysate.