

**RAB11A Antibody**  
Purified Mouse Monoclonal Antibody (Mab)  
Catalog # AW5646

**Specification**

**RAB11A Antibody - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P62491</a>
Other Accession	<a href="#">P62490</a> , <a href="#">P62492</a> , <a href="#">Q52NJ1</a> , <a href="#">Q5R9M7</a> , <a href="#">P62493</a> , <a href="#">P62494</a>
Reactivity	<b>Human, Mouse, Rat</b>
Predicted Host	<b>Pig, Rabbit Mouse</b>
Clonality	<b>Monoclonal</b>
Calculated MW	<b>H=24,18;R=24;M =24 KDa</b>
Isotype	<b>IgG1,k</b>
Antigen Source	<b>HUMAN</b>

**RAB11A Antibody - Additional Information**

**Gene ID** 8766

**Antigen Region**  
1-216

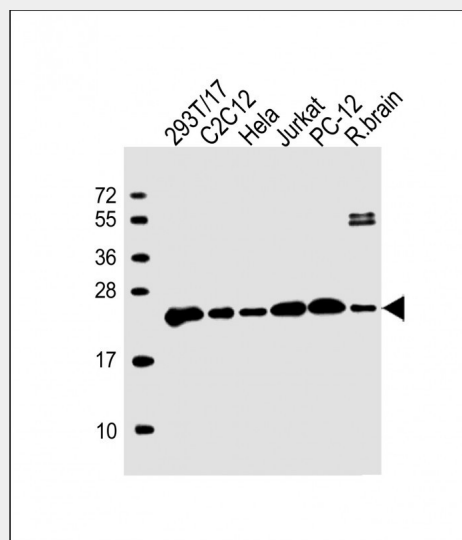
**Other Names**  
Ras-related protein Rab-11A, Rab-11, YL8,  
RAB11A, RAB11

**Dilution**  
WB~~1:4000  
IHC-P~~1:25

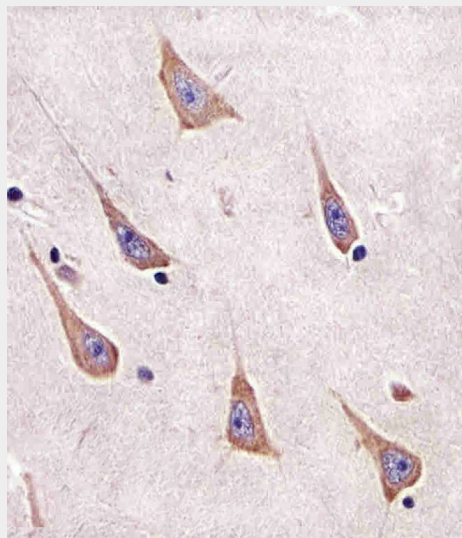
**Target/Specificity**  
This RAB11A antibody is generated from a mouse immunized with a purified recombinant protein of human RAB11A.

**Storage**  
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**  
RAB11A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



All lanes : Anti-RAB11A Antibody at1:4000 dilution Lane 1: 293T/17 whole cell lysate Lane 2: C2C12 whole cell lysate Lane 3: HeLa whole cell lysate Lane 4: Jurkat whole cell lysate Lane 5: PC-12 whole cell lysate Lane 6: rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 24 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AW5646 staining RAB11A in human brain

## **RAB11A Antibody - Protein Information**

**Name** RAB11A

**Synonyms** RAB11

### **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. The small Rab GTPase RAB11A 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.

### **Cellular Location**

Cell membrane; Lipid-anchor. Recycling endosome membrane; Lipid-anchor. Cleavage furrow. Cytoplasmic vesicle, phagosome. Cytoplasmic vesicle membrane. Note=Translocates with RAB11FIP2 from the vesicles of the endocytic recycling compartment (ERC) to the plasma membrane (PubMed:11994279). 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

sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

## **RAB11A Antibody - Background**

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## **RAB11A Antibody - References**

Drivas G.T., et al. *Oncogene* 6:3-9(1991).  
Zahraoui A., et al. Submitted (NOV-1990) to the EMBL/GenBank/DDBJ databases.  
Gromov P.S., et al. *FEBS Lett.* 429:359-364(1998).  
Puhl H.L. III, et al. Submitted (APR-2002) to the

(PubMed:20890297) Recruited to phagosomes containing S.aureus or M.tuberculosis (PubMed:21255211).

EMBL/GenBank/DDBJ databases.  
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

### **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](#)