

**Product Name: RAB11A (4O16) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe16767**



## Summary

|                        |  |
|------------------------|--|
| <b>Production Name</b> | RAB11A (4O16) Rabbit Monoclonal Antibody |
| <b>Description</b>     | Rabbit Monoclonal Antibody               |
| <b>Host</b>            | Rabbit                                   |
| <b>Application</b>     | WB,ELISA                                 |
| <b>Reactivity</b>      | Human,Mouse,Rat                          |

## Performance

|                     |  |
|---------------------|--|
| <b>Conjugation</b>  | Unconjugated   |
| <b>Modification</b> | Unmodified   |
| <b>Isotype</b>      | IgG  |
| <b>Clonality</b>    | Monoclonal   |
| <b>Form</b>         | Liquid   |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.   |
| <b>Buffer</b>       | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |
| <b>Purification</b> | Affinity purification  |

## Immunogen

|                          |  |
|--------------------------|--|
| <b>Gene Name</b>         | RAB11A<br>MGC1490; Rab 11; Rab 11A; Rab-11; RAB11 A; RAB11; Rab11a; RAB11A member RAS                                    |
| <b>Alternative Names</b> | oncogene family; Ras related protein Rab 11A; Ras related protein Rab11A; Ras-related protein Rab-11A; RB11A; YL 8; YL8; |
| <b>Gene ID</b>           | 8766.0   |
| <b>SwissProt ID</b>      | P62491.  |

## Application

|                         |                  |
|-------------------------|------------------|
| <b>Dilution Ratio</b>   | WB 1:1000~1:2000 |
| <b>Molecular Weight</b> | 24kDa            |

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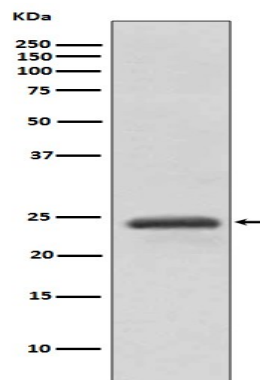


## Background

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). 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.

## Research Area

## Image Data



Western blot analysis of RAB11A expression in HeLa cell lysate.

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**Note**

For research use only.