

**Rab1b Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2225a****Specification****Rab1b Antibody - Product Information**

Application	WB, IHC, FC, E
Primary Accession	<a href="#">O9H0U4</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	22.2kDa KDa

**Description**

Members of the RAB protein family, such as RAB1B, are low molecular mass monomeric GTPases localized on the cytoplasmic surfaces of distinct membrane-bound organelles. RAB1B functions in the early secretory pathway and is essential for vesicle transport between the endoplasmic reticulum (ER) and Golgi

**Immunogen**

Purified recombinant fragment of human Rab1b (AA: 60-201) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**Rab1b Antibody - Additional Information**

**Gene ID** 81876

**Other Names**

Ras-related protein Rab-1B, RAB1B

**Dilution**

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

FC~~1/200 - 1/400

E~~1/10000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Rab1b Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Rab1b Antibody - Protein Information**

**Name** RAB1B ([HGNC:18370](#))

### Function

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (PubMed:<a href="http://www.uniprot.org/citations/20545908" target="\_blank">20545908</a>, PubMed:<a href="http://www.uniprot.org/citations/9437002" target="\_blank">9437002</a>, PubMed:<a href="http://www.uniprot.org/citations/23236136" target="\_blank">23236136</a>). 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/9437002" target="\_blank">9437002</a>). Plays a role in the initial events of the autophagic vacuole development which take place at specialized regions of the endoplasmic reticulum (PubMed:<a href="http://www.uniprot.org/citations/20545908" target="\_blank">20545908</a>). Regulates vesicular transport between the endoplasmic reticulum and successive Golgi compartments (By similarity). Required to modulate the compacted morphology of the Golgi (PubMed:<a href="http://www.uniprot.org/citations/26209634" target="\_blank">26209634</a>). Promotes the recruitment of lipid phosphatase MTMR6 to the endoplasmic reticulum- Golgi intermediate compartment (By similarity).

### Cellular Location

Cytoplasm. Membrane; Lipid-anchor; Cytoplasmic side. Preautophagosomal structure membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P10536}. Note=Targeted by REP1 to membranes of specific subcellular compartments including endoplasmic reticulum, Golgi apparatus, and intermediate vesicles between these two compartments (PubMed:11389151). In the GDP-form, colocalizes with GDI in the cytoplasm (PubMed:11389151). Co-localizes with MTMR6 to the endoplasmic reticulum-Golgi intermediate compartment and to the peri- Golgi region (By similarity). {ECO:0000250|UniProtKB:P10536, ECO:0000269|PubMed:11389151}

### Rab1b 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](#)