

**RAB18 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8510b****Specification**

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**RAB18 Antibody - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">Q9NP72</a>
Other Accession	<a href="#">Q5R5H5</a>
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Antigen Region	1-206aa

**RAB18 Antibody - Additional Information****Gene ID** 22931**Other Names**

Ras-related protein Rab-18, RAB18

**Target/Specificity**

This RAB18 antibody is generated from a mouse immunized with a recombinant protein of human RAB18.

**Dilution**

WB~~1:500-1:2000

FC~~1:25

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**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**

RAB18 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**RAB18 Antibody - Protein Information****Name** RAB18

**Function** The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (PubMed:[24891604](#), PubMed:[30970241](#)). Rabs cycle between an inactive GDP-bound form and an active GTP-bound

form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (PubMed:[24891604](#), PubMed:[30970241](#)). Required for the localization of ZFYVE1 to lipid droplets and for its function in mediating the formation of endoplasmic reticulum-lipid droplets (ER-LD) contacts (PubMed:[30970241](#)). Also required for maintaining endoplasmic reticulum structure (PubMed:[24891604](#)). Plays a role in apical endocytosis/recycling (By similarity). Plays a key role in eye and brain development and neurodegeneration (PubMed:[21473985](#)).

#### Cellular Location

Apical cell membrane {ECO:0000250|UniProtKB:P35293}. Lipid droplet. Endoplasmic reticulum membrane

#### Tissue Location

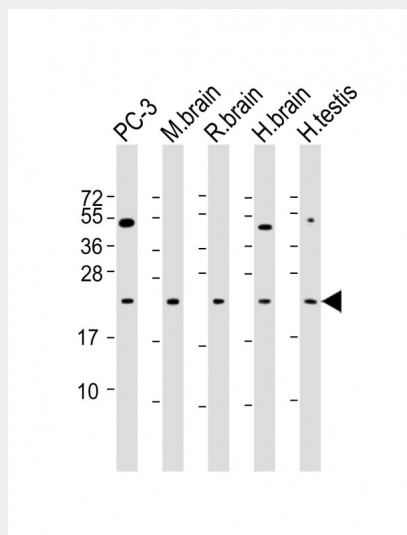
Ubiquitous.

### RAB18 Antibody - Protocols

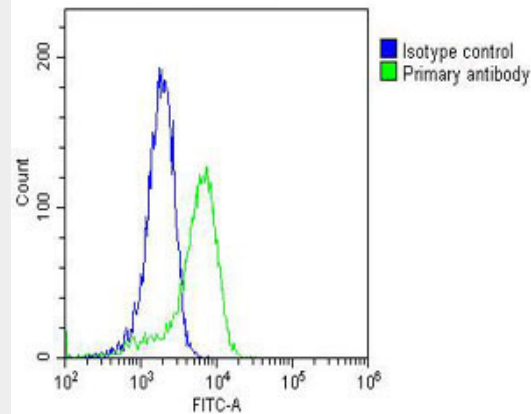
Provided below are standard protocols that you may find useful for product applications.

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

### RAB18 Antibody - Images



All lanes : Anti-RAB18 Antibody at 1:500-1:2000 dilution Lane 1: PC-3 whole cell lysate Lane 2: mouse brain lysate Lane 3: rat brain lysate Lane 4: human brain lysate Lane 5: human testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing PC-3 cells stained with AM8510b (green line). The cells were fixed with 2% paraformaldehyde (10 min). The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AM8510b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (OJ192088) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG1 (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

### **RAB18 Antibody - Background**

Plays a role in apical endocytosis/recycling. May be implicated in transport between the plasma membrane and early endosomes. Plays a key role in eye and brain development and neurodegeneration.

### **RAB18 Antibody - References**

Chikri M.M., et al. Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.  
Schaefer U., et al. FEBS Lett. 466:148-154 (2000).  
Dou T., et al. DNA Seq. 16:230-234 (2005).  
Cui W.C., et al. Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.  
Puhl H.L. III, et al. Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.