

RAB7L1 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8642b**Specification**

RAB7L1 Antibody - Product Information

Application	WB,E
Primary Accession	O14966
Other Accession	Q5R7A4
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1
Calculated MW	23155

RAB7L1 Antibody - Additional Information**Gene ID** 8934**Other Names**

Ras-related protein Rab-7L1, Rab-7-like protein 1, Ras-related protein Rab-29, RAB29, RAB7L1

Target/Specificity

This RAB7L1 antibody is generated from a mouse immunized with a recombinant protein of human RAB7L1.

Dilution

WB~~1:1000-1:2000

E~~Use at an assay dependent concentration.

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

RAB7L1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RAB7L1 Antibody - Protein Information**Name** RAB29**Synonyms** RAB7L1**Function** The small GTPases Rab are key regulators in vesicle trafficking (PubMed:[24788816](#)).

Essential for maintaining the integrity of the endosome-trans-Golgi network structure (By similarity). Together with LRRK2, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the Golgi apparatus in a retromer-dependent manner (PubMed:[24788816](#)). Recruits LRRK2 to the Golgi complex and stimulates LRRK2 kinase activity (PubMed:[29212815](#), PubMed:[38127736](#)). Stimulates phosphorylation of RAB10 'Thr-73' by LRRK2 (PubMed:[38127736](#)). Regulates neuronal process morphology in the intact central nervous system (CNS) (By similarity). May play a role in the formation of typhoid toxin transport intermediates during Salmonella enterica serovar Typhi (S.typhi) epithelial cell infection (PubMed:[22042847](#)).

Cellular Location

Cell membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm. Cytoplasm, perinuclear region. Golgi apparatus. Golgi apparatus membrane. Golgi apparatus, trans-Golgi network. Vacuole. Cytoplasm, cytoskeleton. Note=Colocalizes with LRRK2 along tubular structures emerging from Golgi apparatus (PubMed:[29212815](#)) Colocalizes with GM130 at the Golgi apparatus (PubMed:[22042847](#)) Colocalizes with dynamic tubules emerging from and retracting to the Golgi apparatus (PubMed:[22042847](#), PubMed:[38127736](#)). Colocalizes with TGN46 at the trans-Golgi network (TGN) (PubMed:[24788816](#)). In Salmonella enterica serovar Typhi (S.typhi) infected epithelial cells, is recruited and colocalized with both S.typhi-containing vacuoles and dynamic tubules as well as those emerging from the vacuole toward the cell periphery (PubMed:[22042847](#)).

Tissue Location

Ubiquitous..

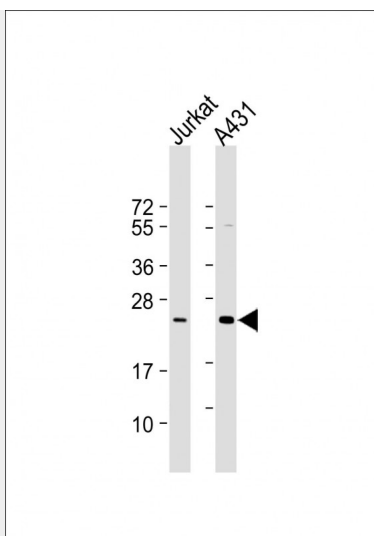
RAB7L1 Antibody - Protocols

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](#)

RAB7L1 Antibody - Images





All lanes : Anti-RAB7L1 Antibody at 1:1000-1:2000 dilution Lane 1: Jurkat whole cell lysate Lane 2: A431 whole cell 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% NFDN/TBST.

RAB7L1 Antibody - Background

Rab GTPase key regulator in vesicle trafficking. Essential for maintaining the integrity of the endosome-trans- Golgi network structure. Together with LRRK2, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the Golgi apparatus in a retromer-dependent manner. Regulates neuronal process morphology in the intact central nervous system (CNS). May play a role in the formation of typhoid toxin transport intermediates during *Salmonella enterica* serovar Typhi (S.Typhi) epithelial cell infection.

RAB7L1 Antibody - References

Shimizu F.,et al.Cytogenet. Cell Genet. 77:261-263(1997).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).
Olsen J.V.,et al.Sci. Signal. 3:RA3-RA3(2010).