

# RAB7L1 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8642b

## Product Information

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Application	WB, E
Primary Accession	<a href="#">Q14966</a>
Other Accession	<a href="#">Q5R7A4</a>
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1
Clone Names	1789CT823.71.1.1
Calculated MW	23155

## Additional Information

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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.

## Protein Information

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Name	RAB29
Synonyms	RAB7L1
Function	The small GTPases Rab are key regulators in vesicle trafficking (PubMed: <a href="#">24788816</a> ). 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..

## Background

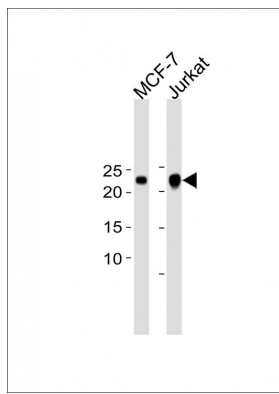
Rab GTPase key regulator in vesicle trafficking. Essential for maintaining the integrity of the endosome-trans- Golgi network structure. Together with LRRK2, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the 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.

## 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).

## Images

All lanes: Anti-RAB7L1 Antibody at 1:1000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Mouse IgG, (H+L), Peroxidase conjugated (ASP1613) at 1/8000 dilution. Observed band size: 23 KDa Blocking/Dilution buffer: 5% NFDm/TBST.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.