10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RAB7L1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50582

Product Information

Application	WB
Primary Accession	O14966
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	23155

Additional Information

Gene ID	8934
Other Names	Ras-related protein Rab-7L1, Rab-7-like protein 1, Ras-related protein Rab-29, RAB29, RAB7L1
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

Protein Information

Name	RAB29 (HGNC:9789)
Synonyms	RAB7L1
Function	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (PubMed:24788816). 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 (By similarity). RAB29 is 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).

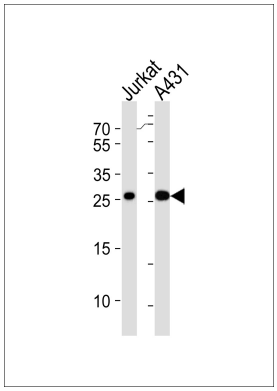
Tissue Location

Ubiquitous..

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



Western blot analysis of lysates from Jurkat,A431 cell line (from left to right),using RAB7L1 Antibody(AP50582). AP50582 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.

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