

ANKRD27 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS13587**Specification****ANKRD27 Antibody (Internal) - Product Information**

Application	IHC
Primary Accession	Q96NW4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	117kDa KDa

ANKRD27 Antibody (Internal) - Additional Information**Gene ID** 84079**Other Names**

Ankyrin repeat domain-containing protein 27, VPS9 domain-containing protein, ANKRD27

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

ANKRD27 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

ANKRD27 Antibody (Internal) - Protein Information**Name** ANKRD27**Function**

May be a guanine exchange factor (GEF) for Rab21, Rab32 and Rab38 and regulate endosome dynamics (PubMed: [16525121](http://www.uniprot.org/citations/16525121), PubMed: [18477474](http://www.uniprot.org/citations/18477474)). May regulate the participation of VAMP7 in membrane fusion events; in vitro inhibits VAMP7-mediated SNARE complex formation by trapping VAMP7 in a closed, fusogenically inactive conformation (PubMed: [23104059](http://www.uniprot.org/citations/23104059)). Involved in peripheral melanosomal distribution of TYRP1 in melanocytes; the function, which probably is implicating vesicle-trafficking, includes cooperation with Rab32, Rab38 and VAMP7 (By similarity). Involved in the regulation of neurite growth; the function seems to require its GEF activity, probably towards Rab21, and VAMP7 but not Rab32/38 (By similarity). Proposed to be involved in Golgi sorting of VAMP7 and transport of VAMP7 vesicles to the cell surface; the function seems to implicate kinesin heavy chain isoform 5 proteins, GOLGA4, RAB21 and MACF1 (PubMed: [22705394](http://www.uniprot.org/citations/22705394)). Required for the colocalization of VAMP7 and Rab21, probably on TGN sites (PubMed: [19745841](http://www.uniprot.org/citations/19745841)). Involved in GLUT1 endosome-to-plasma membrane trafficking;

the function is dependent of association with VPS29 (PubMed:24856514). Regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (By similarity).

Cellular Location

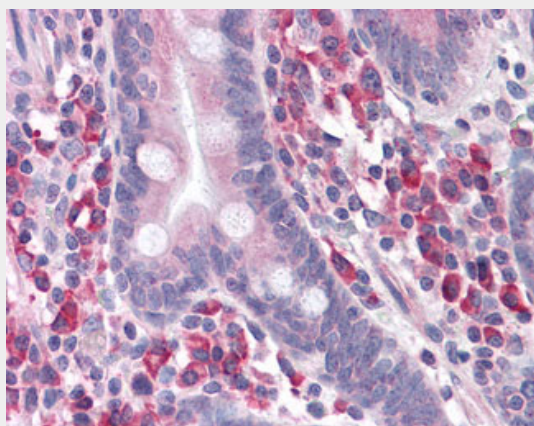
Early endosome. Late endosome. Cytoplasmic vesicle membrane. Lysosome Cell membrane. Melanosome {ECO:0000250|UniProtKB:Q3UMR0}. Note=Colocalizes with VAMP7 in transport vesicles in the shaft of hippocampal neurons (By similarity) {ECO:0000250|UniProtKB:Q3UMR0}

ANKRD27 Antibody (Internal) - 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](#)

ANKRD27 Antibody (Internal) - Images



Anti-ANKRD27 antibody IHC of human small intestine.

ANKRD27 Antibody (Internal) - Background

May be a guanine exchange factor (GEF) for Rab21, Rab32 and Rab38 and regulate endosome dynamics (PubMed:16525121, PubMed:18477474). May regulate the participation of VAMP7 in membrane fusion events; in vitro inhibits VAMP7-mediated SNARE complex formation by trapping VAMP7 in a closed, fusogenically inactive conformation (PubMed:23104059). Involved in peripheral melanosomal distribution of TYRP1 in melanocytes; the function, which probably is implicating vesicle-trafficking, includes cooperation with Rab32, Rab38 and VAMP7 (By similarity). Involved in the regulation of neurite growth; the function seems to require its GEF activity, probably towards Rab21, and VAMP7 but not Rab32/38 (By similarity). Proposed to be involved in Golgi sorting of VAMP7 and transport of VAMP7 vesicles to the cell surface; the function seems to implicate kinesin heavy chain isoform 5 proteins, GOLGA4, RAB21 and MACF1 (PubMed:22705394). Required for the colocalization of VAMP7 and Rab21, probably on TGN sites (PubMed:19745841). Involved in GLUT1 endosome-to-plasma membrane trafficking; the function is dependent of association with VPS29

(PubMed:24856514).

ANKRD27 Antibody (Internal) - References

Wiemann S.,et al.Genome Res. 11:422-435(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Wan D.,et al.Proc. Natl. Acad. Sci. U.S.A. 101:15724-15729(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Zhang X.,et al.J. Cell Sci. 119:1053-1062(2006).