

ANKRD27 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5654b**Specification**

ANKRD27 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O96NW4](#)
Other Accession [NP_115515.2](#)

ANKRD27 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 84079

Other Names

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ANKRD27 Antibody (C-term) Blocking peptide - 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) target="_blank">16525121, PubMed: [18477474](http://www.uniprot.org/citations/18477474) target="_blank">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) target="_blank">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) target="_blank">22705394). Required for the colocalization of VAMP7 and Rab21, probably on TGN sites (PubMed: [19745841](http://www.uniprot.org/citations/19745841) target="_blank">19745841). Involved in GLUT1 endosome-to-plasma membrane trafficking; the function is dependent of association with VPS29 (PubMed: <a

[24856514](http://www.uniprot.org/citations/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 (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ANKRD27 Antibody (C-term) Blocking peptide - Images**ANKRD27 Antibody (C-term) Blocking peptide - Background**

ANKRD27 may be a Rab21 guanine exchange factor and regulate endosome dynamics (By similarity).

ANKRD27 Antibody (C-term) Blocking peptide - References

Burgo, A., et al. EMBO Rep. 10(10):1117-1124(2009)Wang, F., et al. Biochem. Biophys. Res. Commun. 372(1):162-167(2008)Zhang, X., et al. J. Cell. Sci. 119 (PT 6), 1053-1062 (2006) :Wan, D., et al. Proc. Natl. Acad. Sci. U.S.A. 101(44):15724-15729(2004)