ANKRD27 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ANKRD27, Polyclonal Antibody
Full Product Name	ANKRD27 Antibody
Product Gene Name	anti-ANKRD27 antibody
Product Synonym Names	VARP; PP12899
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification
Specificity	The antibody detects endogenous levels of total ANKRD27 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	116,984 Da
3D Structure	ModBase 3D Structure for Q96NW4
Immunogen	Fusion protein of human ANKRD27
Product Categories/Family for anti-ANKRD27 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ANKRD27 antibody	Immunohistochemistry (IHC)
Application Notes for anti-ANKRD27 antibody	IHC: 1: 20-100
Related Product Information for anti-ANKRD27 antibody	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)
Other Notes	Small volumes of anti-ANKRD27 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ANKRD27 purchase	MBS8594483 is an antibody targeting ANKRD27. Also known as ANKRD27 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANKRD27. It may not necessarily be applicable to this product.

NCBI GI #	116063534
NCBI GeneID	84079
NCBI Accession #	NP_115515
UniProt Primary Accession #	Q96NW4
UniProt Secondary Accession #	Q71MF5; Q86UC3; Q8ND80; Q9H0I4
UniProt Related Accession #	Q96NW4
GenBank Nucleotide #	NM_032139.2
NCBI Official Full Name	ankyrin repeat domain-containing protein 27
NCBI Official Synonym Full Names	ankyrin repeat domain 27 (VPS9 domain)
NCBI Official Symbol	ANKRD27
NCBI Official Synonym Symbols	VARP; PP12899
UniProt Protein Name	Ankyrin repeat domain-containing protein 27
UniProt Synonym Protein Names	VPS9 domain-containing protein
Protein Family	Ankyrin repeat domain-containing protein
UniProt Gene Name	ANKRD27
UniProt Entry Name	ANR27_HUMAN
NCBI Protein Information	ankyrin repeat domain-containing protein 27; VPS9-ankyrin-repeat protein; VPS9 domain-containing protein; Vps9 domain and ankyrin-repeat-containing protein
UniProt Comments for ANKRD27	ANKRD27: May be a Rab21 guanine exchange factor and regulate endosome dynamics. Protein type: GEFs; GEFs, Rab Chromosomal Location of Human Ortholog: 19q13.11 Cellular Component: cytoplasmic vesicle membrane; membrane; lysosome; cytoplasm; late endosome; early endosome; plasma membrane; melanosome Molecular Function: protein binding; guanyl-nucleotide exchange factor activity; Rab GTPase binding; GTPase activator activity Biological Process: protein transport; early endosome to late endosome transport; positive regulation of GTPase activity
Research Articles on ANKRD27	**1.** VAMP7-SNARE motif is trapped between Varp and the VAMP7 longin domain, and hence Varp kinetically inhibits the ability of VAMP7 to form SNARE complexes
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