VPS29 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VPS29, Polyclonal Antibody
Full Product Name	VPS29 Polyclonal Antibody
Product Gene Name	anti-VPS29 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	20kDa
OMIM	AF193795 mRNA
3D Structure	ModBase 3D Structure for Q9UBQ0
Immunogen	Recombinant protein of human VPS29 (NP_476528.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-VPS29 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-VPS29 antibody	WB: 1:500-1:2000 IF: 1:50-1:200
Related Product Information for anti-VPS29 antibody	This gene belongs to a group of vacuolar protein sorting (VPS) genes that, when functionally impaired, disrupt the efficient delivery of vacuolar hydrolases. The protein encoded by this gene is a component of a large multimeric complex, termed the retromer complex, which is involved in retrograde transport of proteins from endosomes to the trans-Golgi network. This VPS protein may be involved in the formation of the inner shell of the retromer coat for retrograde vesicles leaving the prevacuolar compartment. Alternative splice variants encoding different isoforms and representing non-protein coding transcripts have been found for this gene.
Other Notes	Small volumes of anti-VPS29 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 VPS29 purchase	MBS8567839 is an antibody targeting VPS29. Also known as VPS29 Polyclonal Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VPS29. It may not necessarily be applicable to this product.

NCBI GI #	7706441
NCBI GeneID	51699
NCBI Accession #	NP_057310

UniProt Primary Accession #	Q9UBQ0
UniProt Related Accession #	Q9UBQ0
GenBank Nucleotide #	NP_057310.1
NCBI Official Full Name	vacuolar protein sorting-associated protein 29 isoform 1
NCBI Official Synonym Full Names	VPS29 retromer complex component
NCBI Official Symbol	VPS29
NCBI Official Synonym Symbols	DC7; DC15; PEP11
UniProt Protein Name	Vacuolar protein sorting-associated protein 29
UniProt Synonym Protein Names	PEP11 homolog; Vesicle protein sorting 29
Protein Family	Vacuolar protein sorting-associated protein
UniProt Gene Name	VPS29
UniProt Synonym Gene Names	hVPS29
NCBI Protein Information	vacuolar protein sorting-associated protein 29
UniProt Comments for VPS29	Acts as component of the retromer cargo-selective complex (CSC). The CSC is believed to be the core functional component of retromer or respective retromer complex variants acting to prevent missorting of selected transmembrane cargo proteins into the lysosomal degradation pathway. The recruitment of the CSC to the endosomal membrane involves RAB7A and SNX3. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX3-retromer mediates the retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway. The SNX27-retromer is believed to be involved in endosome-to-plasma membrane trafficking and recycling of a broad spectrum of cargo proteins. The CSC seems to act as recruitment hub for other proteins, such as the WASH complex and TBC1D5. Required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA) (Probable). Involved in GLUT1 endosome-to-plasma membrane trafficking; the function is dependent of association with ANKRD27 (PubMed:24856514).
Research Articles on VPS29	**1.** RidL is critical for binding of the L. pneumophila effector to the Vps29 retromer subunit and displacement of the regulator TBC1D5.
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