

Rabbit VPS29 Polyclonal Antibody | anti-VPS29 antibody

VPS29 Antibody

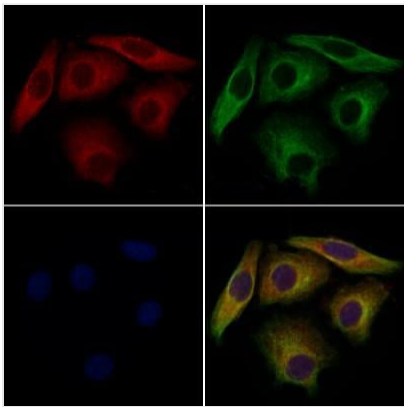
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329107	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(100%)	ELISA

PRODUCT SYNONYMS

VPS29; Polyclonal Antibody; VPS29 Antibody; DC15; DC7; DKFZp564F0223; FLJ20492; hVPS29; PEP11; PEP11 homolog; Retromer protein; Vacuolar protein sorting 29; Vacuolar protein sorting 29 (yeast homolog); Vacuolar protein sorting 29 (yeast); Vacuolar protein sorting 29 homolog (S. cerevisiae); Vacuolar protein sorting 29 homolog; Vacuolar protein sorting associated protein 29; Vacuolar protein sorting-associated protein 29; Vacuolar sorting protein VPS29/PEP11; Vesicle protein sorting 29; VPS 29; VPS29 retromer complex component; VPS29_HUMAN; x 007 protein; anti-VPS29 antibody

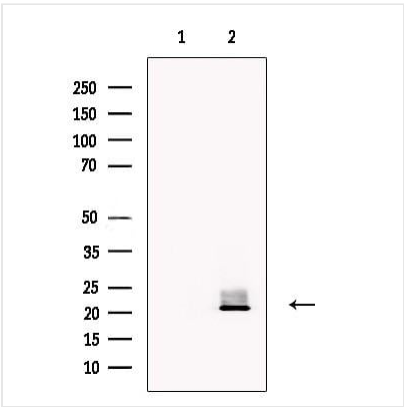
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	VPS29 Antibody detects endogenous levels of total VPS29.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	182
Applicable Applications for anti-VPS29 antibody	ELISA
Immunogen	A synthesized peptide derived from human VPS29, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)

AAA329107 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329107 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from ACHN, using VPS29 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-VPS29 antibody	Function: 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) (PubMed:15247922, PubMed:21725319, PubMed:23563491). Acts also as component of the retriever complex. The retriever complex is a heterotrimeric complex related to retromer cargo-selective complex (CSC) and essential for retromer-independent retrieval and recycling of numerous cargos such as integrin alpha-5/beta-1 (ITGA5:ITGB1) (PubMed:28892079). In the endosomes, retriever complex drives the retrieval and recycling of NxxY-motif-containing cargo proteins by coupling to SNX17, a cargo essential for the homeostatic maintenance of numerous cell surface proteins associated with processes that include cell migration, cell adhesion, nutrient supply and cell signaling (PubMed:28892079). The recruitment of the retriever complex to the endosomal membrane involves CCC and WASH complexes (PubMed:28892079). Involved in GLUT1 endosome-to-plasma membrane trafficking; the function is dependent of association with ANKRD27 (PubMed:24856514).(Microbial infection) The heterotrimeric retromer cargo-selective complex (CSC) mediates the exit of human papillomavirus from the early endosome and the delivery to the Golgi apparatus. Subcellular Location: Cytoplasm. Membrane>Peripheral membrane protein. Endosome membrane>Peripheral membrane protein. Early endosome. Late endosome. Tissue Specificity: Ubiquitous. Highly expressed in heart, lung, placenta, spleen, peripheral blood leukocytes, thymus, colon skeletal muscle, kidney and brain. Subunit Structure: Component of the heterotrimeric retromer cargo-selective complex (CSC), also described as vacuolar protein sorting subcomplex (VPS), formed by VPS26 (VPS26A or VPS26B), VPS29 and VPS35 (PubMed:11102511, PubMed:16737443, PubMed:17891154, PubMed:28892079). The CSC has a highly elongated structure with VPS26 and VPS29 binding independently at opposite distal ends of VPS35 as central platform (By similarity). The CSC is believed to associate with variable sorting nexins to form functionally distinct retromer complex variants. The originally described retromer complex (also called SNX-BAR retromer) is a pentamer containing the CSC and a heterodimeric membrane-deforming subcomplex formed between SNX1 or SNX2 and SNX5 or SNX6 (also called SNX-BAR subcomplex); the respective CSC and SNX-BAR subcomplexes associate with low affinity. The CSC associates with SNX3 to form a SNX3-retromer complex. The CSC associates with SNX27, the WASH complex and the SNX-BAR subcomplex to form the SNX27-retromer complex (PubMed:21725319, PubMed:23563491). Component of the heterotrimeric retriever complex formed by VPS26C, VPS29 and VPS35L (PubMed:28892079). Interacts with VPS26A, VPS35, SNX1, SNX2, SNX27, WASHC5, TBC1D5 (PubMed:11102511, PubMed:20923837, PubMed:23331060, PubMed:23563491, PubMed:28892079). Interacts with VPS26B and ANKRD27 (By similarity).(Microbial infection) Interacts with human papillomavirus 16 minor capsid protein L2 (via C-terminus); this interaction mediates the transport of the capsid from the early endosome to the Golgi apparatus. Similarity: Belongs to the VPS29 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7706441
NCBI GeneID	51699
NCBI Accession #	NP_057310
NCBI GenBank Nucleotide #	NP_057310.1
UniProt Accession #	Q9UBQ0
Molecular Weight	Observed Molecular Weight: (Observed)20kD. Predicted Molecular Weight: (Calculated)21kDa.
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
NCBI Protein Information	vacuolar protein sorting-associated protein 29
UniProt Protein Name	Vacuolar protein sorting-associated protein 29
UniProt Gene Name	VPS29
UniProt Synonym Gene Names	hVPS29

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/vps29-antibody-elisa/329107>