Recombinant Human VPS29 Protein (M1-P182), Tag Free

Cat. No. VPS29-0065H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GG-Vps29(M1-P182 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	M1-P182
Description	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). 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	(ITGA5:ITGB1). 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. The recruitment of the retriever complex to the endosomal membrane involves CCC and WASH complexes. Involved in GLUT1 endosome-to-plasma membrane trafficking; the function is dependent of association with ANKRD27.
Form	Liquid
Endotoxin	< 0.01 EU per μg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	VPS29 vacuolar protein sorting 29 homolog (S. cerevisiae) [Homo sapiens (human)]
Official Symbol	VPS29

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Synonyms	VPS29; vacuolar protein sorting 29 homolog (S. cerevisiae); vacuolar protein sorting 29 (yeast homolog), vacuolar protein sorting 29 (yeast); vacuolar protein sorting-associated protein 29; DC7; DC15; PEP11; hVPS29; PEP11 homolog; x 007 protein; retromer protein; vesicle protein sorting 29; vacuolar sorting protein VPS29/PEP11; FLJ20492; DKFZp564F0223;
Gene ID	51699
mRNA Refseq	NM_016226
Protein Refseq	NP_057310
MIM	606932
UniProt ID	Q9UBQ0

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