

Recombinant Mouse Vps26a Protein, Myc/DDK-tagged

Cat. No. Vps26a-6932M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse VPS26 retromer complex component A (Vps26a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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 complex seems to act as recruitment hub for other proteins, such as the WASH complex and TBC1D5. Required for retrograde transport of lysosomal enzyme receptor IGF2R. Required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA). Required for the endosomal localization of WASHC2 (indicative for the WASH complex). Required for the endosomal localization of TBC1D5. Mediates retromer cargo recognition of SORL1 and is involved in trafficking of SORL1 implicated in sorting and processing of APP.

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Involved in retromer-independent lysosomal sorting of F2R. Involved in recycling of ADRB2. Acts redundantly with VSP26B in SNX-27 mediated endocytic recycling of SLC2A1/GLUT1. Enhances the affinity of SNX27 for PDZ-binding motifs in cargo proteins.

Molecular Mass	38.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Vps26a VPS26 retromer complex component A [<i>Mus musculus</i> (house mouse)]
Official Symbol	Vps26a
Synonyms	VPS26A; vacuolar protein sorting 26 homolog A (yeast); vacuolar protein sorting-associated protein 26A; mVPS26; H beta 58; h< beta> 58 protein; vacuole protein sorting 26; vesicle protein sorting 26A; HB58; Vps26; AA407240;
Gene ID	30930
mRNA Refseq	NM_133672

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Protein Refseq	NP_598433
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UniProt ID	P40336
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