

Recombinant Mouse Vps33a Protein, Myc/DDK-tagged

Cat. No. Vps33a-6937M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse VPS33A CORVET/HOPS core subunit (Vps33a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Plays a role in vesicle-mediated protein trafficking to lysosomal compartments including the endocytic membrane transport and autophagic pathways. Believed to act as a core component of the putative HOPS and CORVET endosomal tethering complexes which are proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MON1A/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-mediated membrane fusion. The HOPS complex is proposed to be recruited to Rab7 on the late endosomal membrane and to regulate late endocytic, phagocytic and autophagic traffic towards lysosomes. The CORVET complex is proposed to function as a Rab5 effector to mediate early endosome fusion probably in specific endosome subpopulations. Required for fusion of endosomes and autophagosomes with lysosomes; the function is dependent on its association with VPS16 but not VIPAS39. The function in autophagosome-lysosome fusion implicates STX17 but not UVRAG.
Molecular Mass	67.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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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	Vps33a VPS33A CORVET/HOPS core subunit [<i>Mus musculus</i> (house mouse)]
Official Symbol	Vps33a
Synonyms	VPS33A; vacuolar protein sorting 33A (yeast); vacuolar protein sorting-associated protein 33A; buff; vacuolar sorting protein 33a; bf; AI503300; AW048546; AW554476; 3830421M04Rik
Gene ID	77573
mRNA Refseq	NM_029929
Protein Refseq	NP_084205
UniProt ID	Q9D2N9

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