

Recombinant Mouse Vps41 Protein, Myc/DDK-tagged

Cat. No. Vps41-6942M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse VPS41 HOPS complex subunit (Vps41), 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 in part as a core component of the putative HOPS endosomal tethering complex is 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. Involved in homotypic vesicle fusions between late endosomes and in heterotypic fusions between late endosomes and lysosomes implicated in degradation of endocytosed cargo. Required for fusion of autophagosomes with lysosomes. May link the HOPS complex to endosomal Rab7 via its association with RILP and to lysosomal membranes via its association with ARL8B, suggesting that these interactions may bring the compartments to close proximity for fusion. Involved in the direct trans-Golgi network to late endosomes transport of lysosomal membrane proteins independently of HOPS. Involved in sorting to the regulated secretory pathway presumably implicating the AP-3 adaptor complex. May play a role in HOPS-independent function

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in the regulated secretory pathway.

Molecular Mass	99.1 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	Vps41 VPS41 HOPS complex subunit [<i>Mus musculus</i> (house mouse)]
Official Symbol	Vps41
Synonyms	VPS41; vacuolar protein sorting 41 (yeast); vacuolar protein sorting-associated protein 41 homolog; VAM2 homolog; Vam2; mVam2; AI317346; MGC159002
Gene ID	218035
mRNA Refseq	NM_172120
Protein Refseq	NP_742118
UniProt ID	Q5KU39

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