

Immunotag™ VPS16 Antibody

Antibody Specification	
Catalog No.	ITA2896
Product Description	Immunotag™ VPS16 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	VPS16
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC
Recommended Dilution	WB 1:500-1:2000, IHC 1:50-1:200
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human VPS16.
Specificity	VPS16 antibody detects endogenous levels of VPS16.
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	VPS16
Accession No.	Q9H269
Alternate Names	HGNC:14584; hVPS16; mVPS16; RP11 12M19.2; Vacuolar protein sorting 16 (yeast); Vacuolar protein sorting 16 (Yeast), isoform CRA_a; Vacuolar protein sorting 16; Vacuolar protein sorting 16 homolog (S. cerevisiae); vacuolar protein sorting associated protein 16 homolog; Vacuolar protein sorting protein 16; Vacuolar protein sorting-associated protein 16 homolog; VPS16; VPS16_HUMAN; VPS16A;

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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 (PubMed:11382755, PubMed:23351085, PubMed:24554770, PubMed:25266290, PubMed:25783203). Required for recruitment of VPS33A to the HOPS complex (PubMed:23901104). Required for fusion of endosomes and autophagosomes with lysosomes; the function is dependent on its association with VPS33A but not VPS33B (PubMed:25783203). The function in autophagosome-lysosome fusion implicates STX17 but not UVRAG (PubMed:24554770).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	95 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.