10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

VPS11 Antibody

Rabbit mAb
Catalog # AP92288

Product Information

Application	WB, IHC, FC
Primary Accession	Q9H270
Reactivity	Human, Mouse
Clonality	Monoclonal
Other Names	END1; hVPS11; PEP5; PP3476; RNF108; vps11;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	107809

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 FC 1:80
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human VPS11
Description	May play a role in vesicle-mediated protein trafficking to lysosomal compartments and in membrane docking/fusion reactions of late endosomes/lysosomes.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	VPS11
Synonyms	RNF108
Function	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 fusion of endosomes and autophagosomes with lysosomes (PubMed:25783203). Involved in cargo

transport from early to late endosomes and required for the transition from early to late endosomes (PubMed:21148287). Involved in the retrograde Shiga toxin transport (PubMed:23593995).

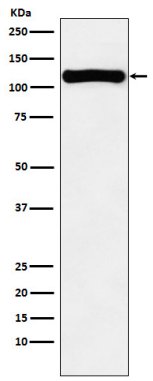
Cellular Location

Endosome. Late endosome membrane; Peripheral membrane protein; Cytoplasmic side. Lysosome membrane; Peripheral membrane protein; Cytoplasmic side. Early endosome {ECO:0000269|PubMed:21148287, ECO:0000305}. Cytoplasmic vesicle. Cytoplasmic vesicle, autophagosome. Cytoplasmic vesicle, clathrin-coated vesicle

Tissue Location

Ubiquitous. Expression was highest in heart and low in lung

Images



Western blot analysis of VPS11 expression in K562 cell lysate.