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VPS16 Antibody (aa358-371)
Goat Polyclonal Antibody
Catalog # ALS16464

Specification

VPS16 Antibody (aa358-371) - Product Information

Application	**WB, IHC**
Primary Accession	Q9H269
Reactivity	**Human, Mouse, Rat, Pig, Bovine**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**95kDa KDa**

VPS16 Antibody (aa358-371) - Additional Information

Gene ID 64601

Other Names
Vacuolar protein sorting-associated protein 16 homolog, hVPS16, VPS16

Target/Specificity
Human VPS16. This antibody is expected to recognize reported isoform 1 (NP_072097.2) only.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
VPS16 Antibody (aa358-371) is for research use only and not for use in diagnostic or therapeutic procedures.

VPS16 Antibody (aa358-371) - Protein Information

Name VPS16

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:<a

href="http://www.uniprot.org/citations/25783203" target="_blank">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).

Cellular Location
Late endosome membrane; Peripheral membrane protein; Cytoplasmic side. Lysosome membrane; Peripheral membrane protein; Cytoplasmic side. Early endosome. Cytoplasmic vesicle, clathrin-coated vesicle {ECO:0000250|UniProtKB:Q920Q4}. Cytoplasmic vesicle, autophagosome. Note=Colocalizes with AP- 3, clathrin, Rab5 and Rab7b (By similarity). Cytoplasmic, peripheral membrane protein associated with early endosomes and late endosomes/lysosomes. {ECO:0000250|UniProtKB:Q920Q4, ECO:0000305}

Tissue Location
Ubiquitous.

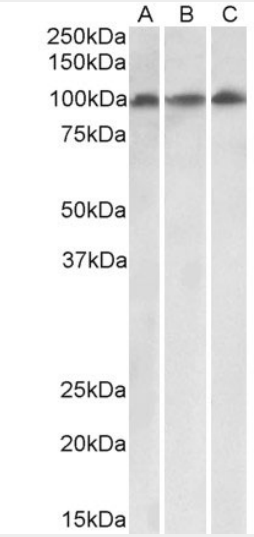
Volume
250 µl

VPS16 Antibody (aa358-371) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

VPS16 Antibody (aa358-371) - Images



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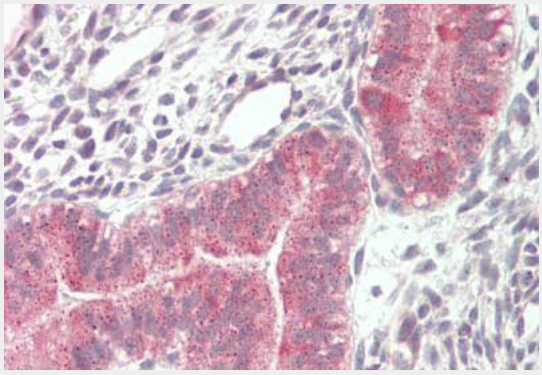
VPS16 antibody (0.1 ug/ml) staining of HeLa (A), HepG2 (B) and Jurkat (C) lysates (35 ug protein...



Human Uterus: Formalin-Fixed, Paraffin-Embedded (FFPE)

VPS16 Antibody (aa358-371) - Background

May play a role in vesicle-mediated protein trafficking to lysosomal compartments and in membrane docking/fusion reactions of late endosomes/lysosomes.

VPS16 Antibody (aa358-371) - References

Huizing M.,et al.Gene 264:241-247(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Deloukas P.,et al.Nature 414:865-871(2001).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Kim B.Y.,et al.J. Biol. Chem. 276:29393-29402(2001).