

**VPS16 (isoform 1) Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4117a****Specification**

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**VPS16 (isoform 1) Antibody (internal region) - Product Information**

Application	WB, E
Primary Accession	<a href="#">Q9H269</a>
Other Accession	<a href="#">NP_072097.2</a> , <a href="#">64601</a> , <a href="#">80743 (mouse)</a> , <a href="#">296159 (rat)</a>
Reactivity	Human, Mouse, Rat
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	94694

**VPS16 (isoform 1) Antibody (internal region) - Additional Information****Gene ID** 64601**Other Names**

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

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

VPS16 (isoform 1) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**VPS16 (isoform 1) Antibody (internal region) - 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:<a href="http://www.uniprot.org/citations/11382755" target="\_blank">11382755</a>, PubMed:<a href="http://www.uniprot.org/citations/23351085" target="\_blank">23351085</a>, PubMed:<a href="http://www.uniprot.org/citations/24554770" target="\_blank">24554770</a>, PubMed:<a href="http://www.uniprot.org/citations/25266290" target="\_blank">25266290</a>, PubMed:<a href="http://www.uniprot.org/citations/25783203" target="\_blank">25783203</a>). Required for recruitment of VPS33A to the HOPS complex (PubMed:<a href="http://www.uniprot.org/citations/23901104" target="\_blank">23901104</a>). Required for fusion of endosomes and autophagosomes with lysosomes; the function is dependent on its association with VPS33A but not VPS33B (PubMed:<a href="http://www.uniprot.org/citations/25783203" target="\_blank">25783203</a>). The function in autophagosome- lysosome fusion implicates STX17 but not UVRAG (PubMed:<a href="http://www.uniprot.org/citations/24554770" target="\_blank">24554770</a>).

#### 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

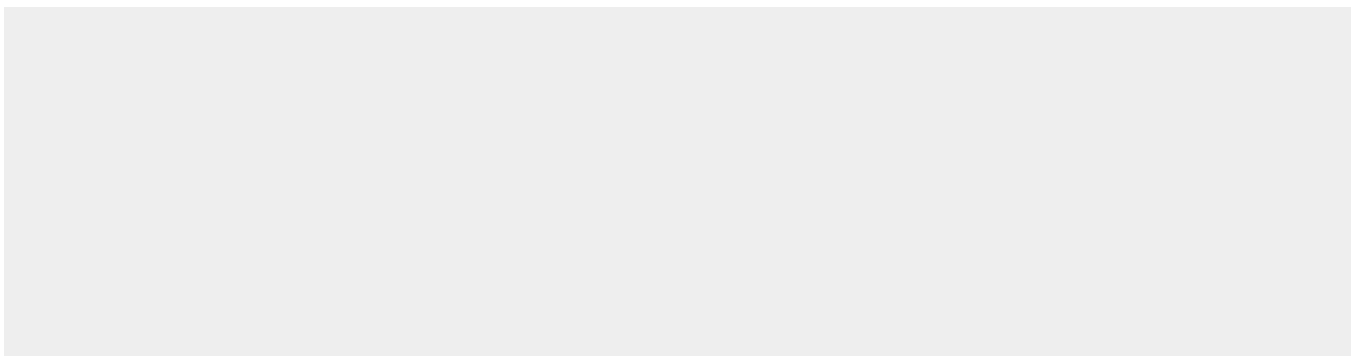
Ubiquitous.

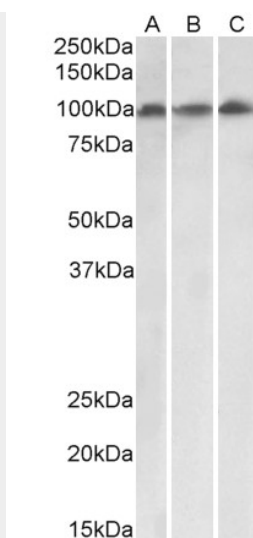
#### VPS16 (isoform 1) Antibody (internal region) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### VPS16 (isoform 1) Antibody (internal region) - Images





AF4117a (0.1 µg/ml) staining of HeLa (A), HepG2 (B) and Jurkat (C) lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF4117a (0.1 µg/ml) staining of Mouse Spleen lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **VPS16 (isoform 1) Antibody (internal region) - Background**

This antibody is expected to recognize reported isoform 1 (NP\_072097.2) only.

#### **VPS16 (isoform 1) Antibody (internal region) - References**

Molecular cloning and characterization of human VPS18, VPS 11, VPS16, and VPS33. Huizing M, Didier A, Walenta J, Anikster Y, Gahl WA, Krämer H. Gene. 2001 Feb 21;264(2):241-7. PMID: 11250079