

Anti-VPS18 Rabbit Monoclonal Antibody
Catalog # ABO15714**Specification****Anti-VPS18 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IF, ICC, FC
Primary Accession	Q9P253
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-VPS18 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-VPS18 Rabbit Monoclonal Antibody - Additional Information

Gene ID 57617

Other Names

Vacuolar protein sorting-associated protein 18 homolog, hVPS18, VPS18 ([HGNC:15972](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=15972)), KIAA1475

Calculated MW

100 kDa KDa

Application Details

WB 1:500-1:2000
ICC/IF 1:50-1:200
FC 1:50

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human VPS18

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-VPS18 Rabbit Monoclonal Antibody - Protein Information

Name VPS18 ([HGNC:15972](#))

Synonyms KIAA1475

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](http://www.uniprot.org/citations/11382755), PubMed:[23351085](http://www.uniprot.org/citations/23351085), PubMed:[24554770](http://www.uniprot.org/citations/24554770), PubMed:[25783203](http://www.uniprot.org/citations/25783203)). Required for fusion of endosomes and autophagosomes with lysosomes (PubMed:[25783203](http://www.uniprot.org/citations/25783203)). Involved in dendrite development of Pukinje cells (By similarity).

Cellular Location

Late endosome membrane; Peripheral membrane protein; Cytoplasmic side. Lysosome membrane; Peripheral membrane protein; Cytoplasmic side. Early endosome Cytoplasmic vesicle, autophagosome. Cytoplasmic vesicle, clathrin-coated vesicle. Note=Cytoplasmic, peripheral membrane protein associated with early endosomes and late endosomes/lysosomes

Tissue Location

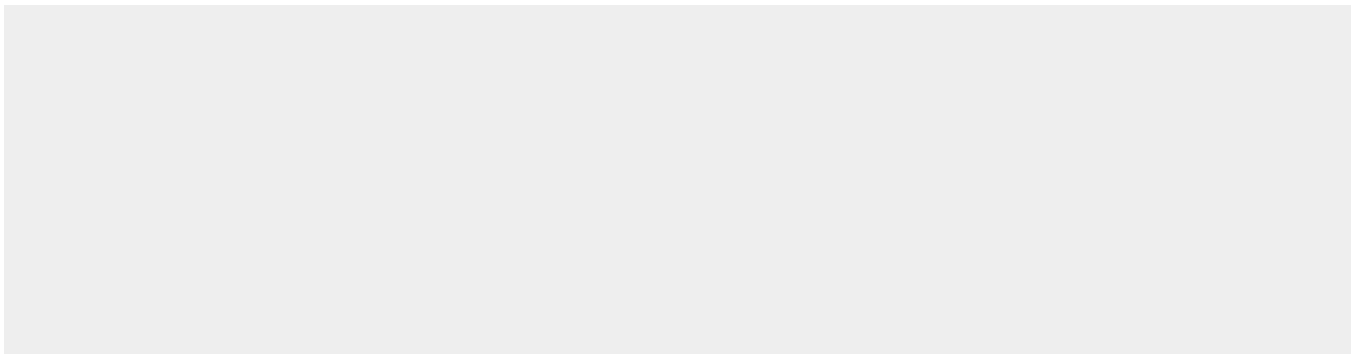
Ubiquitous. Expression was highest in heart and low in lung.

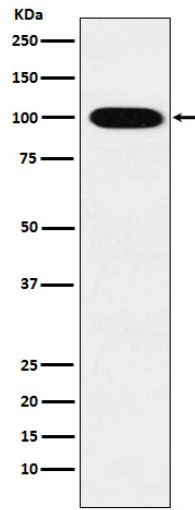
Anti-VPS18 Rabbit Monoclonal Antibody - Protocols

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](#)

Anti-VPS18 Rabbit Monoclonal Antibody - Images





Western blot analysis of VPS18 expression in K562 cell lysate.