

VPS4B Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13813b**Specification**

VPS4B Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [O75351](#)**VPS4B Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 9525**Other Names**

Vacuolar protein sorting-associated protein 4B, Cell migration-inducing gene 1 protein, Suppressor of K(+) transport growth defect 1, Protein SKD1, VPS4B, SKD1, VPS42

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13813b was selected from the C-term region of VPS4B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

VPS4B Antibody (C-term) Blocking peptide - Protein Information**Name** VPS4B ([HGNC:10895](#))**Synonyms** SKD1, VPS42**Function**

Involved in late steps of the endosomal multivesicular bodies (MVB) pathway. Recognizes membrane-associated ESCRT-III assemblies and catalyzes their ATP-dependent disassembly, possibly in combination with membrane fission (PubMed:18687924). Redistributes the ESCRT-III components to the cytoplasm for further rounds of MVB sorting. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. VPS4A/B are required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:22660413).

Cellular Location

Late endosome membrane {ECO:0000250|UniProtKB:P46467}; Peripheral membrane protein.
Note=Membrane-associated in the prevacuolar endosomal compartment. Localized in HIV-1 particles purified from acutely infected cells.

Tissue Location

Ubiquitously expressed.

VPS4B Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

VPS4B Antibody (C-term) Blocking peptide - Images**VPS4B Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene is a member of the AAAprotein family (ATPases associated with diverse cellularactivities), and is the homolog of the yeast Vps4 protein. Inhumans, two paralogs of the yeast protein have been identified. Theformer share a high degree of aa sequence similarity with eachother, and also with yeast Vps4 and mouse Skd1 proteins. Mouse Skd1(suppressor of K+ transport defect 1) has been shown to be a yeastVps4 ortholog. Functional studies indicate that both human paralogsassociate with the endosomal compartments, and are involved inintracellular protein trafficking, similar to Vps4 protein inyeast. The gene encoding this paralog has been mapped to chromosome18; the gene for the other resides on chromosome 16. [provided byRefSeq].

VPS4B Antibody (C-term) Blocking peptide - References

Morita, E., et al. Proc. Natl. Acad. Sci. U.S.A. 107(29):12889-12894(2010)McDonough, C.W., et al. Hum. Genet. (2009) In press :Bruce, E.A., et al. Virology 390(2):268-278(2009)Inoue, M., et al. Traffic 9(12):2180-2189(2008)Stuchell-Brereton, M.D., et al. Nature 449(7163):740-744(2007)