

VPS26A Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8722c**Specification**

VPS26A Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O75436](#)**VPS26A Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 9559

Other Names

Vacuolar protein sorting-associated protein 26A, Vesicle protein sorting 26A, hVPS26, VPS26A, VPS26

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8722c](/products/AP8722c) was selected from the Center region of human VPS26A. 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.

VPS26A Antibody (Center) Blocking Peptide - Protein Information

Name VPS26A {ECO:0000303|PubMed:30213940, ECO:0000312|HGNC:HGNC:12711}

Function

Acts as a component of the retromer cargo-selective complex (CSC). The CSC is believed to be the core functional component of retromer or respective retromer complex variants acting to prevent missorting of selected transmembrane cargo proteins into the lysosomal degradation pathway. The recruitment of the CSC to the endosomal membrane involves RAB7A and SNX3. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX3-retromer mediates the retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway. The SNX27-retromer is believed to be involved in endosome-to-plasma membrane trafficking and recycling of a broad spectrum of cargo proteins (Probable). The CSC seems to act as recruitment hub for other proteins, such as the WASH complex and TBC1D5 (Probable). Required for retrograde transport of lysosomal enzyme receptor

IGF2R (PubMed:15078902, PubMed:15078903). Required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA) (PubMed:15247922). Required for the endosomal localization of WASHC2A (indicative for the WASH complex) (PubMed:22070227). Required for the endosomal localization of TBC1D5 (PubMed:20923837). Mediates retromer cargo recognition of SORL1 and is involved in trafficking of SORL1 implicated in sorting and processing of APP (PubMed:22279231). Involved in retromer-independent lysosomal sorting of F2R (PubMed:16407403). Involved in recycling of ADRB2 (PubMed:21602791). Enhances the affinity of SNX27 for PDZ-binding motifs in cargo proteins (By similarity).

Cellular Location

Cytoplasm. Endosome membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P40336}. Early endosome Note=Localizes to tubular profiles adjacent to endosomes (PubMed:15078903). Predominantly found in early not late endosomes (By similarity). {ECO:0000250|UniProtKB:P40336}

VPS26A Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

VPS26A Antibody (Center) Blocking Peptide - Images

VPS26A Antibody (Center) Blocking Peptide - Background

VPS26A is a component of a large multimeric complex, termed the retromer complex, involved in retrograde transport of proteins from endosomes to the trans-Golgi network. The close structural similarity between the yeast and human proteins that make up this complex suggests a similarity in function. Expression studies in yeast and mammalian cells indicate that this protein interacts directly with VPS35, which serves as the core of the retromer complex.

VPS26A Antibody (Center) Blocking Peptide - References

Haft,C.R., et.al., Mol. Biol. Cell 11 (12), 4105-4116 (2000)Reddy,J.V.et.al., Mol. Biol. Cell 12 (10), 3242-3256 (2001)