

VPS26A Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8722C**Specification**

VPS26A Antibody (Center) - Product Information

Application	FC, WB, IHC-P,E
Primary Accession	O75436
Other Accession	O01258 , Q6AY86 , P40336 , Q6TNP8 , Q0VD53 , Q6DFU4 , Q6IRD0
Reactivity	Human
Predicted	Xenopus, Bovine, Zebrafish, Mouse, Rat, C.Elegans
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	263-291

VPS26A Antibody (Center) - Additional Information**Gene ID** 9559**Other Names**

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

Target/Specificity

This VPS26A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 263-291 amino acids from the Central region of human VPS26A.

Dilution

FC~~1:10~50

WB~~1:1000

IHC-P~~1:50~100

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

VPS26A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

VPS26A Antibody (Center) - 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

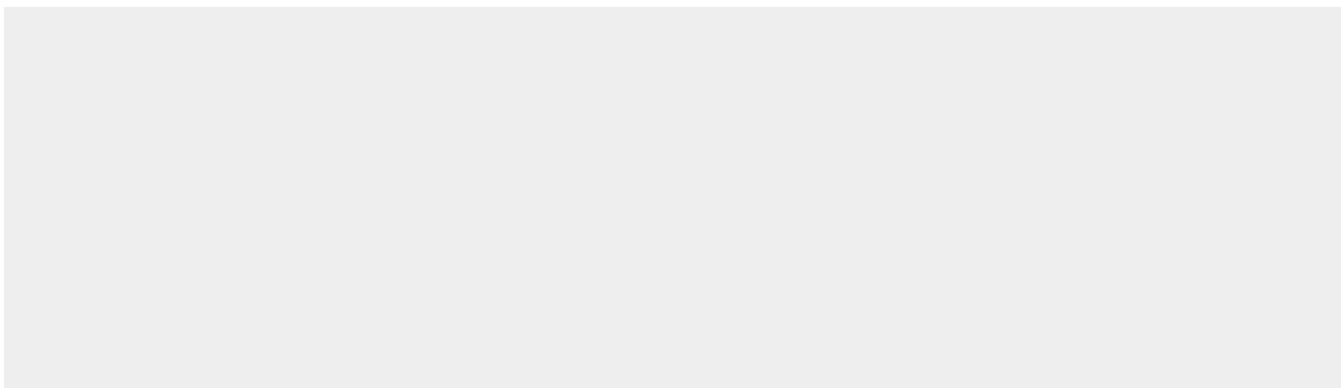
Cytoplasm. Endosome membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P40336}. Early endosome Note=Localizes to tubular profiles adjacent to endosomes (PubMed:15078903). Predominantly found in early not late endosomes (By similarity). {ECO:0000250|UniProtKB:P40336}

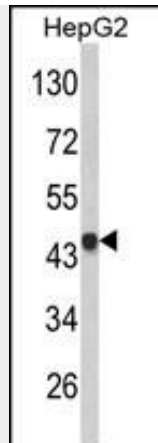
VPS26A Antibody (Center) - Protocols

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

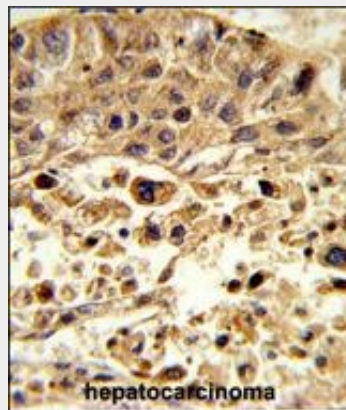
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

VPS26A Antibody (Center) - Images

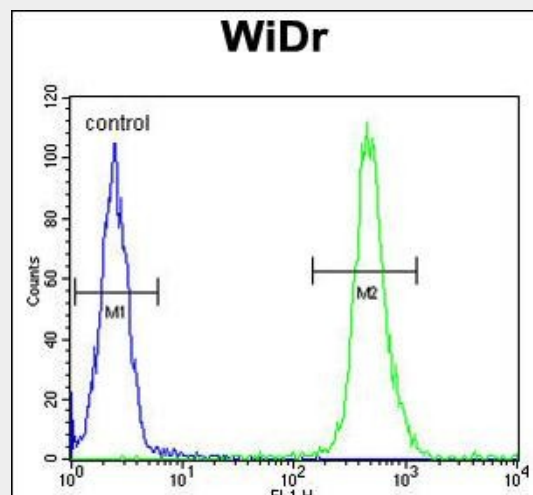




Western blot analysis of VPS26A Antibody (Center) (Cat. #AP8722c) in HepG2 cell line lysates (35ug/lane). VPS26A (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with VPS26A Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



VPS26A Antibody (Center) (Cat. #AP8722c) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

VPS26A Antibody (Center) - 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) - 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)