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VPS13B Antibody (N-Terminus)

Rabbit Polyclonal Antibody
Catalog # ALS15635

Specification

VPS13B Antibody (N-Terminus) - Product Information

Application	**WB, IHC-P, IF**
Primary Accession	Q7Z7G8
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**449kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **IF~~1:50~200**

VPS13B Antibody (N-Terminus) - Additional Information

Gene ID 157680

Other Names
Vacuolar protein sorting-associated protein 13B, Cohen syndrome protein 1, VPS13B, CHS1, COH1, KIAA0532

Target/Specificity
Human VPS13B. At least five alternatively spliced transcript variants have been observed. COH1 detects two isoforms.

Reconstitution & Storage
Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions
VPS13B Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

VPS13B Antibody (N-Terminus) - Protein Information

Name VPS13B

Synonyms CHS1, COH1, KIAA0532

Function
Mediates the transfer of lipids between membranes at organelle contact sites (By similarity). Binds phosphatidylinositol 3- phosphate (By similarity). Functions as a tethering factor in the slow endocytic recycling pathway, to assist traffic between early and recycling endosomes (PubMed:24334764, PubMed:30962439, PubMed:32375900). Involved in

the transport of proacrosomal vesicles to the nuclear dense lamina (NDL) during spermatid development (By similarity). Plays a role in the assembly of the Golgi apparatus, possibly by mediating trafficking to the Golgi membrane (PubMed:21865173). Plays a role in the development of the nervous system, and may be required for neuron projection development (PubMed:25492866, PubMed:32560273). May also play a role during adipose tissue development (PubMed:26358774). Required for maintenance of the ocular lens (By similarity).

Cellular Location
Recycling endosome membrane {ECO:0000250|UniProtKB:Q80TY5}; Peripheral membrane protein. Cytoplasmic vesicle, secretory vesicle, acrosome membrane {ECO:0000250|UniProtKB:Q80TY5}; Peripheral membrane protein. Golgi apparatus, cis-Golgi network membrane; Peripheral membrane protein. Endoplasmic reticulum- Golgi intermediate compartment membrane; Peripheral membrane protein. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Early endosome membrane; Peripheral membrane protein. Lysosome membrane; Peripheral membrane protein. Note=Localizes to proacrosomal and acrosomal vesicles and not the Golgi apparatus during acrosome formation. {ECO:0000250|UniProtKB:Q80TY5}

Tissue Location
Widely expressed (PubMed:12730828). There is apparent differential expression of different transcripts (PubMed:12730828, PubMed:19006247). In fetal brain, lung, liver, and kidney, two transcripts of 2 and 5 kb are identified (PubMed:12730828) These transcripts are also seen in all adult tissues analyzed (PubMed:12730828). A larger transcript (12-14 kb) is expressed in prostate, testis, ovary, and colon in the adult (PubMed:12730828) Expression is very low in adult brain tissue (PubMed:12730828) Expressed in peripheral blood lymphocytes (PubMed:33025479). Isoform 1 and isoform 2 are expressed in brain and retina (PubMed:12730828, PubMed:19006247). Isoform 2 is expressed ubiquitously (PubMed:12730828, PubMed:19006247).

VPS13B Antibody (N-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

VPS13B Antibody (N-Terminus) - Images

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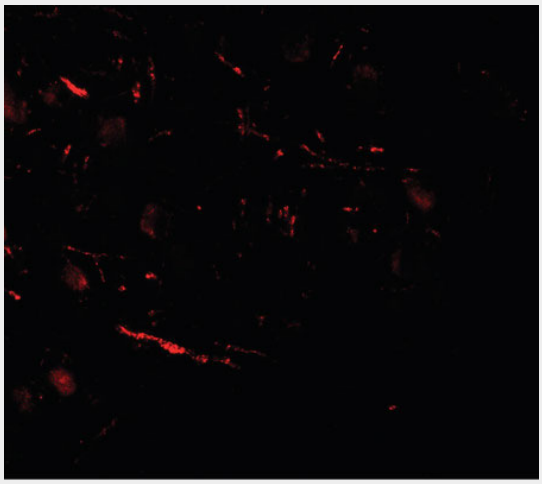
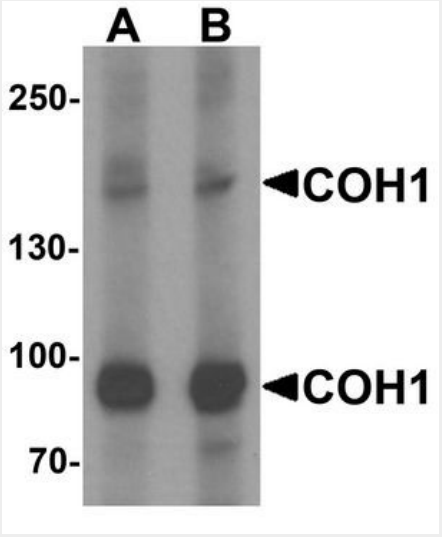
Anti-VPS13B antibody IHC staining of human skin.



Immunofluorescence of COH1 in human brain tissue with COH1 antibody at 20 ug/ml.



Western blot analysis of COH1 in SK-N-SH cell lysate with COH1 antibody at (A) 1 and (B) 2 ug/ml.

VPS13B Antibody (N-Terminus) - Background

May be involved in protein sorting in post Golgi membrane traffic.

VPS13B Antibody (N-Terminus) - References

Kolehmainen J.,et al.Am. J. Hum. Genet. 72:1359-1369(2003).
Velayos-Baeza A.,et al.Genomics 84:536-549(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).
Nagase T.,et al.DNA Res. 5:31-39(1998).