

**VPS13B Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS15635****Specification**

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**VPS13B Antibody (N-Terminus) - Product Information**

Application	IHC, IF, WB
Primary Accession	<a href="#">Q7Z7G8</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	449kDa KDa

**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:<a href="http://www.uniprot.org/citations/30962439" target="\_blank">30962439</a>, PubMed:<a href="http://www.uniprot.org/citations/24334764" target="\_blank">24334764</a>, PubMed:<a href="http://www.uniprot.org/citations/32375900" target="\_blank">32375900</a>). 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:<a

href="http://www.uniprot.org/citations/21865173" target="\_blank">21865173</a>). Plays a role in the development of the nervous system, and may be required for neuron projection development (PubMed:<a href="http://www.uniprot.org/citations/25492866" target="\_blank">25492866</a>, PubMed:<a href="http://www.uniprot.org/citations/32560273" target="\_blank">32560273</a>). May also play a role during adipose tissue development (PubMed:<a href="http://www.uniprot.org/citations/26358774" target="\_blank">26358774</a>). 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**

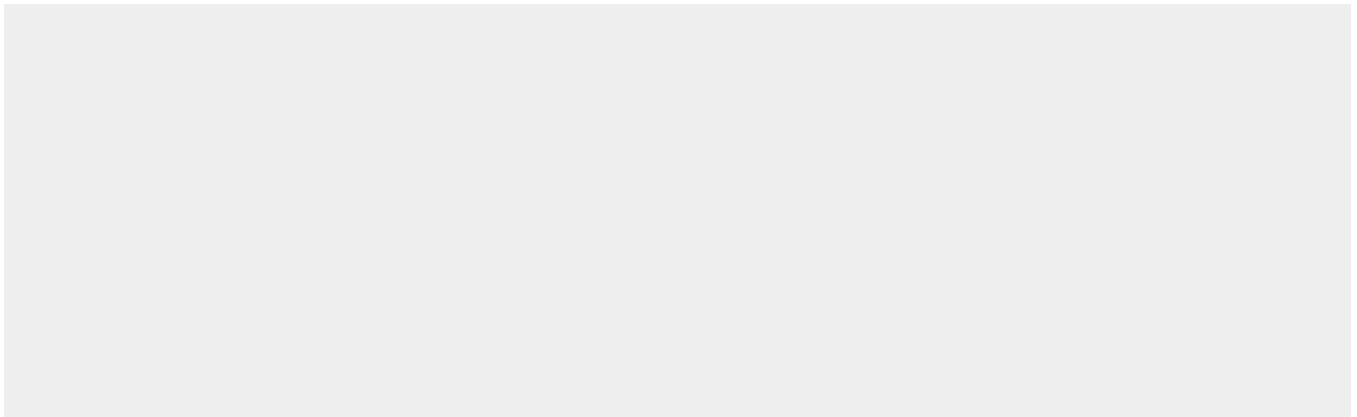
Widely expressed (PubMed:12730828). There is apparent differential expression of different transcripts (PubMed:12730828, PubMed:19006247). In fetal brain, lung, liver, and kidney, two transcripts of 2 and 5 kb are identified (PubMed:12730828) These transcripts are also seen in all adult tissues analyzed (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).

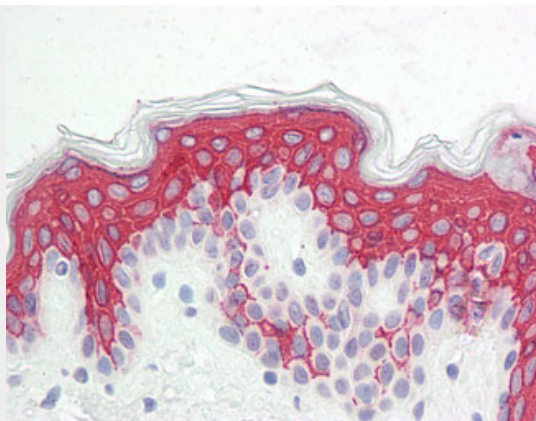
#### **VPS13B Antibody (N-Terminus) - Protocols**

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

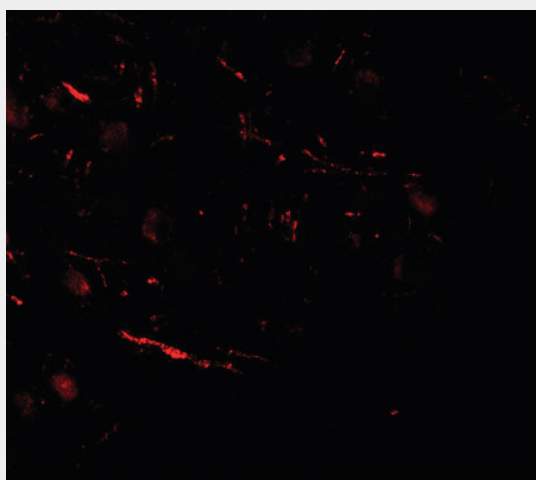
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **VPS13B Antibody (N-Terminus) - Images**

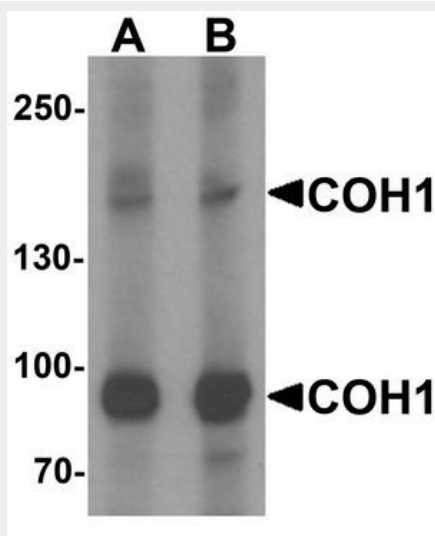




Anti-VPS13B antibody IHC staining of human skin.



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).