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VPS13B Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15167

Product Information

Application	WB
Primary Accession	Q7Z7G8
Other Accession	NM_181661, NP_858047
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	448664

Additional Information

Gene ID	157680
Alias Symbol	CHS1, COH1, DKFZp313I0811, KIAA0532
Other Names	Vacuolar protein sorting-associated protein 13B, Cohen syndrome protein 1, VPS13B, CHS1, COH1, KIAA0532
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-VPS13B antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	VPS13B Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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}

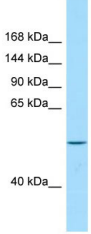
Tissue Location

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).

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).

Images



WB Suggested Anti-VPS13B Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Heart