

SLC5A6 / SMVT Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS11011**Specification**

SLC5A6 / SMVT Antibody (Internal) - Product Information

Application	IHC
Primary Accession	O9Y289
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69kDa KDa

SLC5A6 / SMVT Antibody (Internal) - Additional Information**Gene ID** 8884**Other Names**

Sodium-dependent multivitamin transporter, Na(+)-dependent multivitamin transporter, Solute carrier family 5 member 6, SLC5A6, SMVT

Target/Specificity

Human SLC5A6. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

SLC5A6 / SMVT Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC5A6 / SMVT Antibody (Internal) - Protein Information**Name** SLC5A6 ([HGNC:11041](#))**Synonyms** SMVT**Function**

Sodium-dependent multivitamin transporter that mediates the electrogenic transport of pantothenate, biotin, lipoate and iodide (PubMed:10329687, PubMed:15561972, PubMed:19211916, PubMed:21570947, PubMed:20980265, PubMed:22015582, PubMed:25971966, PubMed:25809983, PubMed:28052864, PubMed:27904971, PubMed:31754459). Functions as a Na(+)-coupled substrate symporter where the stoichiometry of Na(+):substrate is 2:1, creating an electrochemical Na(+) gradient used as driving force for substrate uptake (PubMed:10329687, PubMed:20980265). Required for biotin and pantothenate uptake in the intestine across the brush border membrane (PubMed:19211916). Plays a role in the maintenance of intestinal mucosa integrity, by providing the gut mucosa with biotin (By similarity). Contributes to the luminal uptake of biotin and pantothenate into the brain across the blood-brain barrier (PubMed:25809983).

Cellular Location

Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Note=Preferentially localized at the luminal membrane of brain capillary endothelium (PubMed:25809983). Localized to the brush border/apical membrane of intestine and renal polarized cells (PubMed:19211916).

Tissue Location

Expressed in microvessels of the brain (at protein level) (PubMed:25809983). Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney, and pancreas (PubMed:10329687)

Volume

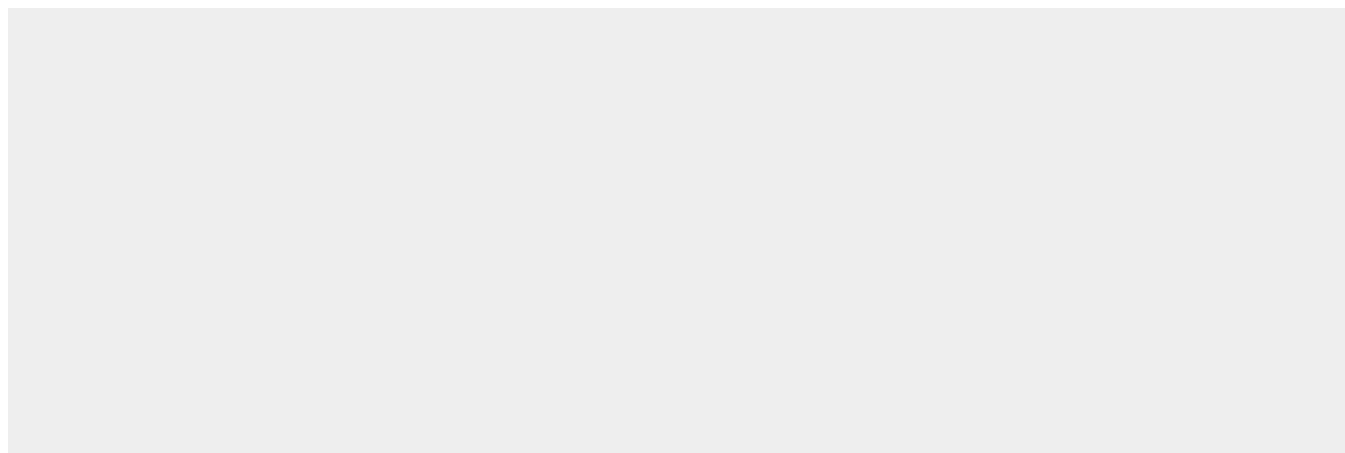
50 µl

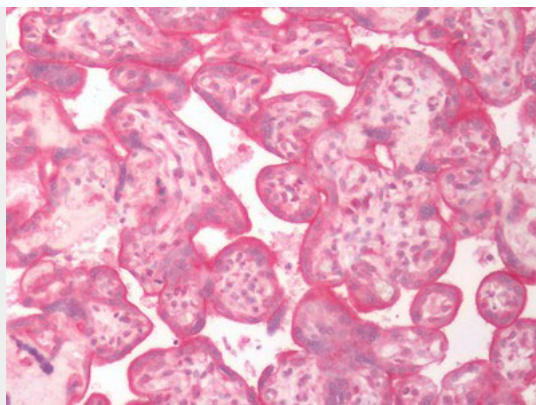
SLC5A6 / SMVT Antibody (Internal) - Protocols

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

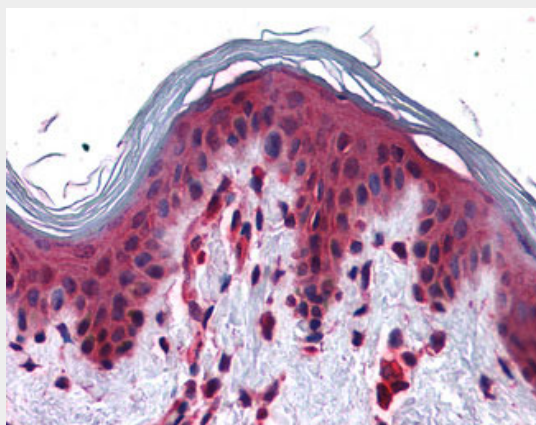
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC5A6 / SMVT Antibody (Internal) - Images

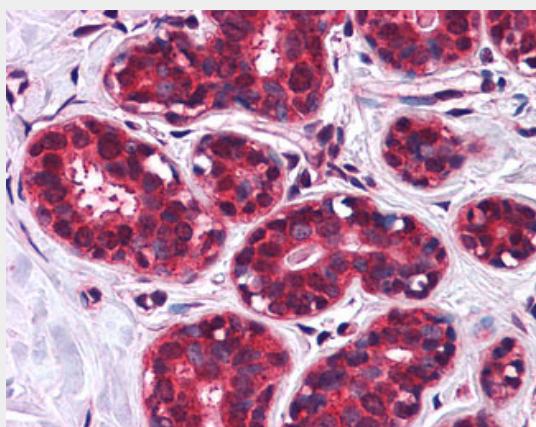




Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)



Anti-SLC5A6 antibody ALS11011 IHC of human skin.



Anti-SLC5A6 antibody ALS11011 IHC of human breast.

SLC5A6 / SMVT Antibody (Internal) - Background

Transports pantothenate, biotin and lipoate in the presence of sodium.

SLC5A6 / SMVT Antibody (Internal) - References

- Wang H.,et al.J. Biol. Chem. 274:14875-14883(1999).
Prasad P.D.,et al.Arch. Biochem. Biophys. 366:95-106(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

