

SLC5A11 / SMIT2 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10590**Specification****SLC5A11 / SMIT2 Antibody (Internal) - Product Information**

Application	IHC
Primary Accession	Q8WWX8
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74kDa KDa

SLC5A11 / SMIT2 Antibody (Internal) - Additional Information**Gene ID** 115584**Other Names**

Sodium/myo-inositol cotransporter 2, Na(+)/myo-inositol cotransporter 2, Sodium-dependent glucose cotransporter, Sodium/glucose cotransporter KST1, Sodium/myo-inositol transporter 2, SMIT2, Solute carrier family 5 member 11, SLC5A11 {ECO:0000312|EMBL:EAW55781.1}

Target/Specificity

Human SLC5A11. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

SLC5A11 / SMIT2 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC5A11 / SMIT2 Antibody (Internal) - Protein Information**Name** SLC5A11 ([HGNC:23091](#))**Function**

Involved in the sodium-dependent cotransport of myo-inositol (MI) with a Na(+):MI stoichiometry of 2:1 (PubMed:15172003, PubMed:19032932). Exclusively responsible for apical MI transport and absorption in intestine (By similarity). Can also transport D-chiro- inositol (DCI) but not L-fucose (PubMed:15172003, PubMed:19032932). Exhibits stereospecific cotransport of both D-glucose and D-xylose (By similarity). May induce apoptosis through the TNF-alpha, PDCD1 pathway (PubMed:15172003, PubMed:19032932).

<http://www.uniprot.org/citations/18069935> target="_blank">18069935). May play a role in the regulation of MI concentration in serum, involving reabsorption in at least the proximal tubule of the kidney (By similarity).

Cellular Location

Membrane; Multi-pass membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:Q9Z1F2}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9Z1F2}. Note=Located on apical membrane of enterocytes (By similarity). Located on membrane of kidney brush border membrane vesicles (BBMVs) and apical membrane of proximal convoluted tubules (By similarity). {ECO:0000250|UniProtKB:Q28728, ECO:0000250|UniProtKB:Q9Z1F2}

Tissue Location

Highest expression in heart, skeletal muscle, kidney, liver and placenta. Weaker expression in brain, colon, spleen, lung and peripheral blood leukocytes.

Volume

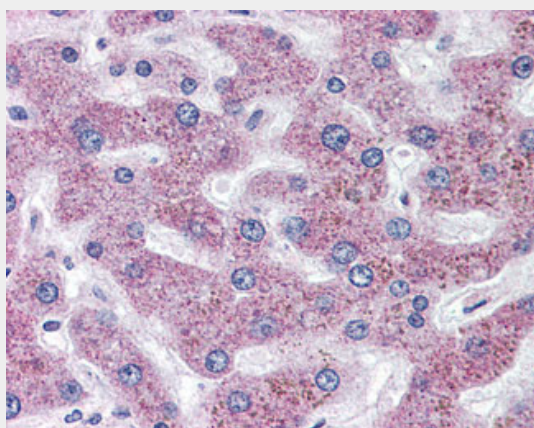
50 µl

SLC5A11 / SMIT2 Antibody (Internal) - Protocols

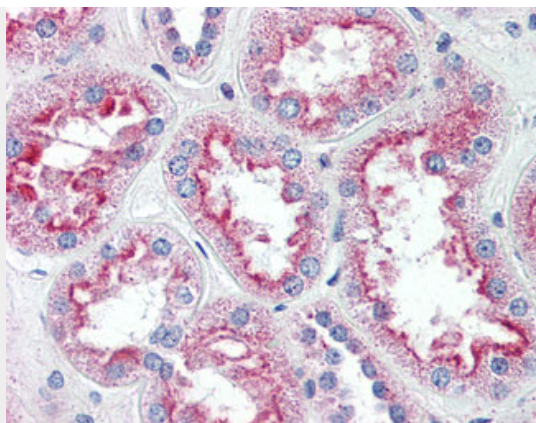
Provided below are standard protocols that you may find useful for product applications.

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

SLC5A11 / SMIT2 Antibody (Internal) - Images



Anti-SLC5A11 antibody ALS10590 IHC of human liver.



Anti-SLC5A11 antibody ALS10590 IHC of human kidney.

SLC5A11 / SMIT2 Antibody (Internal) - Background

Involved in the sodium-dependent cotransport of myo- inositol (MI) with a Na(+):MI stoichiometry of 2:1. Exclusively responsible for apical MI transport and absorption in intestine. Also can transport D-chiro-inositol (DCI) but not L-fructose. Exhibits stereospecific cotransport of both D-glucose and D- xylose. May induce apoptosis through the TNF-alpha, PDCD1 pathway. May play a role in the regulation of MI concentration in serum, involving reabsorption in at least the proximal tubule of the kidney.

SLC5A11 / SMIT2 Antibody (Internal) - References

Roll P.,et al.Gene 285:141-148(2002).
Mount D.B.,et al.Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases.
Bruss M.,et al.Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Martin J.,et al.Nature 432:988-994(2004).