

SLC5A10 / SGLT5 Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10591**Specification****SLC5A10 / SGLT5 Antibody (Cytoplasmic Domain) - Product Information**

Application	IHC
Primary Accession	A0PJK1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64kDa KDa

SLC5A10 / SGLT5 Antibody (Cytoplasmic Domain) - Additional Information**Gene ID** 125206**Other Names**

Sodium/glucose cotransporter 5, Na(+)/glucose cotransporter 5, Solute carrier family 5 member 10, SLC5A10, SGLT5

Target/Specificity

Human SLC5A10. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except SLC5A1 (67%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

SLC5A10 / SGLT5 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC5A10 / SGLT5 Antibody (Cytoplasmic Domain) - Protein Information**Name** SLC5A10**Synonyms** SGLT5 {ECO:0000303|PubMed:24573086}**Function**

[Isoform 1]: Electrogenic Na⁺-coupled sugar symporter that actively transports D-mannose or D-fructose at the plasma membrane, with a Na⁺ to sugar coupling ratio of 1:1. Transporter activity is driven by a transmembrane Na⁺ electrochemical gradient set by the Na⁺/K⁺ pump. Exclusively recognizes sugar substrates having a pyranose ring with an axial hydroxyl group on carbon 2 (PubMed: [24573086](http://www.uniprot.org/citations/24573086), PubMed: [22212718](http://www.uniprot.org/citations/22212718), PubMed: [23451068](http://www.uniprot.org/citations/23451068)). Has likely evolved to enable renal reabsorption of D-mannose, an important constituent of oligosaccharide chains of glycoproteins. Contributes to dietary D-fructose reabsorption from

glomerular filtrate across the brush border of the kidney (PubMed:22212718, PubMed:23451068).

Cellular Location

Apical cell membrane {ECO:0000250|UniProtKB:Q5SWY8}; Multi-pass membrane protein

Tissue Location

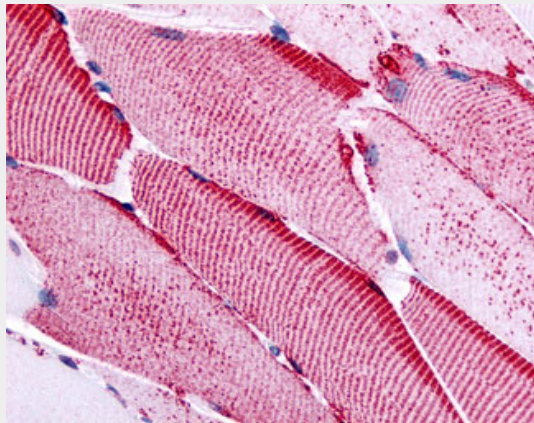
Predominantly expressed at high levels in kidney. Very low expression is detected in testes [Isoform 2]: The most abundant isoform expressed in kidney. [Isoform 5]: Expressed in kidney.

SLC5A10 / SGLT5 Antibody (Cytoplasmic Domain) - 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](#)

SLC5A10 / SGLT5 Antibody (Cytoplasmic Domain) - Images



Anti-SLC5A10 antibody ALS10591 IHC of human skeletal muscle.

SLC5A10 / SGLT5 Antibody (Cytoplasmic Domain) - Background

High capacity transporter for mannose and fructose and, to a lesser extent, glucose, AMG, and galactose.

SLC5A10 / SGLT5 Antibody (Cytoplasmic Domain) - References

Ota T., et al. Nat. Genet. 36:40-45(2004).
Zody M.C., et al. Nature 440:1045-1049(2006).
Mayya V., et al. Sci. Signal. 2:RA46-RA46(2009).
Grempler R., et al. FEBS Lett. 586:248-253(2012).