

**SLC2A5 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16142c****Specification**

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**SLC2A5 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P22732](#)**SLC2A5 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 6518**Other Names**

Solute carrier family 2, facilitated glucose transporter member 5, Fructose transporter, Glucose transporter type 5, small intestine, GLUT-5, SLC2A5, GLUT5

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**SLC2A5 Antibody (Center) Blocking Peptide - Protein Information****Name** SLC2A5 ([HGNC:11010](#))**Function**

Functions as a fructose transporter that has only low activity with other monosaccharides (PubMed:<a href="http://www.uniprot.org/citations/8333543" target="\_blank">8333543</a>, PubMed:<a href="http://www.uniprot.org/citations/16186102" target="\_blank">16186102</a>, PubMed:<a href="http://www.uniprot.org/citations/28083649" target="\_blank">28083649</a>, PubMed:<a href="http://www.uniprot.org/citations/17710649" target="\_blank">17710649</a>, PubMed:<a href="http://www.uniprot.org/citations/29548810" target="\_blank">29548810</a>). Can mediate the uptake of 2-deoxyglucose, but with low efficiency (PubMed:<a href="http://www.uniprot.org/citations/1695905" target="\_blank">1695905</a>). Essential for fructose uptake in the small intestine (By similarity). Plays a role in the regulation of salt uptake and blood pressure in response to dietary fructose (By similarity). Required for the development of high blood pressure in response to high dietary fructose intake (By similarity).

**Cellular Location**

Apical cell membrane {ECO:0000250|UniProtKB:Q9WV38}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9WV38}. Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9WV38}. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P43427}. Note=Localized on the apical membrane of jejunum villi, but

also on lateral plasma membranes of the villi. Transport to the cell membrane is dependent on RAB11A {ECO:0000250|UniProtKB:Q9WV38}

**Tissue Location**

Detected in skeletal muscle, and in jejunum brush border membrane and basolateral membrane (at protein level) (PubMed:7619085). Expressed in small intestine, and at much lower levels in kidney, skeletal muscle, and adipose tissue

**SLC2A5 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**SLC2A5 Antibody (Center) Blocking Peptide - Images****SLC2A5 Antibody (Center) Blocking Peptide - Background**

SLC2A5 is a cytochalasin B-sensitive carrier. Seems to function primarily as a fructose transporter.

**SLC2A5 Antibody (Center) Blocking Peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Inamochi, Y., et al. Biochem. Biophys. Res. Commun. 392(1):16-21(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Barone, S., et al. J. Biol. Chem. 284(8):5056-5066(2009)