

**Anti-SLC2A5 Antibody**  
**Catalog # ABO11370****Specification**

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**Anti-SLC2A5 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P22732</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Solute carrier family 2, facilitated glucose transporter member 5 (SLC2A5) detection. Tested with WB in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-SLC2A5 Antibody - 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

**Calculated MW**

54974 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Apical cell membrane ; Multi- pass membrane protein . Membrane; Multi-pass membrane protein. Localized on the apical membrane of the small intestine and the proximal tubule of the kidney. .

**Tissue Specificity**

Expressed in small intestine, and at much lower levels in kidney, skeletal muscle, and adipose tissue.

**Protein Name**

Solute carrier family 2, facilitated glucose transporter member 5

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human SLC2A5 (481-501aa VSEVYPEKEELKELPPVTSEQ).

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily.

**Anti-SLC2A5 Antibody - 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/16186102" target="\_blank">16186102</a>, PubMed:<a href="http://www.uniprot.org/citations/17710649" target="\_blank">17710649</a>, PubMed:<a href="http://www.uniprot.org/citations/28083649" target="\_blank">28083649</a>, PubMed:<a href="http://www.uniprot.org/citations/29548810" target="\_blank">29548810</a>, PubMed:<a href="http://www.uniprot.org/citations/8333543" target="\_blank">8333543</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

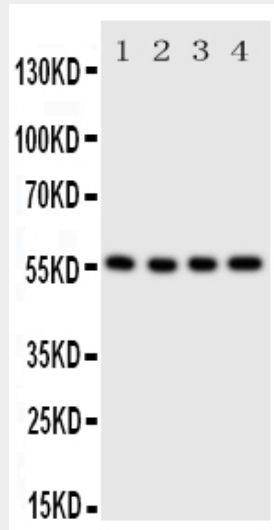
**Anti-SLC2A5 Antibody - Protocols**

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](#)

#### Anti-SLC2A5 Antibody - Images



Anti-SLC2A5 antibody, ABO11370, Western blotting  
Lane 1: U87 Cell Lysate  
Lane 2: 293T Cell Lysate  
Lane 3: HT1080 Cell Lysate  
Lane 4: SW620 Cell Lysate

#### Anti-SLC2A5 Antibody - Background

SLC2A5, also known as GLUT5 (Glucose transporter 5), is a fructose transporter expressed on the apical border of enterocytes in the small intestine. The GLUT5 gene is located on chromosome 1. GLUT5 allows for fructose to be transported from the intestinal lumen into the enterocyte by facilitated diffusion due to fructose's high concentration in the intestinal lumen. GLUT5 is also expressed in skeletal muscle, testis, kidney, fat tissue, and brain. Fructose malabsorption or Dietary Fructose Intolerance is a dietary disability of the small intestine, where the amount of fructose carrier in enterocytes is deficient. In humans the GLUT5 protein is encoded by the SLC2A5 gene.