

GLUT2 (SLC2A2) Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP1489a**Specification**

GLUT2 (SLC2A2) Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [P11168](#)**GLUT2 (SLC2A2) Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 6514

Other Names

Solute carrier family 2, facilitated glucose transporter member 2, Glucose transporter type 2, liver, GLUT-2, SLC2A2, GLUT2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1489a](/product/products/AP1489a) was selected from the N-term region of human SLC2A2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

GLUT2 (SLC2A2) Antibody (N-term) Blocking peptide - Protein InformationName SLC2A2 ([HGNC:11006](#))**Function**

Facilitative hexose transporter that mediates the transport of glucose, fructose and galactose (PubMed: [16186102](http://www.uniprot.org/citations/16186102), PubMed: [23396969](http://www.uniprot.org/citations/23396969), PubMed: [28083649](http://www.uniprot.org/citations/28083649), PubMed: [8027028](http://www.uniprot.org/citations/8027028), PubMed: [8457197](http://www.uniprot.org/citations/8457197)). Likely mediates the bidirectional transfer of glucose across the plasma membrane of hepatocytes and is responsible for uptake of glucose by the beta cells; may comprise part of the glucose-sensing mechanism of the beta cell (PubMed: [8027028](http://www.uniprot.org/citations/8027028)). May also participate with the Na(+)/glucose cotransporter in the transcellular transport of glucose in the

small intestine and kidney (PubMed:3399500). Also able to mediate the transport of dehydroascorbate (PubMed:23396969).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Liver, insulin-producing beta cell, small intestine and kidney.

GLUT2 (SLC2A2) Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

GLUT2 (SLC2A2) Antibody (N-term) Blocking peptide - Images**GLUT2 (SLC2A2) Antibody (N-term) Blocking peptide - Background**

Glucose transporter 2 isoform is an integral plasma membrane glycoprotein of the liver, islet beta cells, intestine, and kidney epithelium. It mediates facilitated bidirectional glucose transport. Because of its low affinity for glucose, it has been suggested as a glucose sensor.

GLUT2 (SLC2A2) Antibody (N-term) Blocking peptide - References

Freitas,H.S., Nephron Physiol 105 (3), P42-P51 (2007)Laukkanen,O., Diabetes 54 (7), 2256-2260 (2005)Roncero,I., J. Neurochem. 88 (5), 1203-1210 (2004)