

**SLC2A2 / GLUT2 Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS12261****Specification**

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**SLC2A2 / GLUT2 Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">P11168</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	57kDa KDa

**SLC2A2 / GLUT2 Antibody - 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**

Recognizes human GLUT 2 (Glucose Transporter, Insulin Regulatable) expression on hGlut2-transfected NS0 cells but not on control transfectants. Detects Glut2 on the surface of the human intestinal cell line Caco2 in flow cytometry and on fixed cells ...

**Reconstitution & Storage**

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

**Precautions**

SLC2A2 / GLUT2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SLC2A2 / GLUT2 Antibody - Protein Information****Name** SLC2A2 ([HGNC:11006](#))**Function**

Facilitative hexose transporter that mediates the transport of glucose, fructose and galactose (PubMed:&lt;a href="http://www.uniprot.org/citations/16186102" target="\_blank"&gt;16186102&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/23396969" target="\_blank"&gt;23396969&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/28083649" target="\_blank"&gt;28083649&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/8027028" target="\_blank"&gt;8027028&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/8457197" target="\_blank"&gt;8457197&lt;/a&gt;). 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:&lt;a href="http://www.uniprot.org/citations/8027028" target="\_blank"&gt;8027028&lt;/a&gt;). May also

participate with the Na(+)/glucose cotransporter in the transcellular transport of glucose in the small intestine and kidney (PubMed:<a href="http://www.uniprot.org/citations/3399500" target="\_blank">3399500</a>). Also able to mediate the transport of dehydroascorbate (PubMed:<a href="http://www.uniprot.org/citations/23396969" target="\_blank">23396969</a>).

#### Cellular Location

Cell membrane; Multi-pass membrane protein

#### Tissue Location

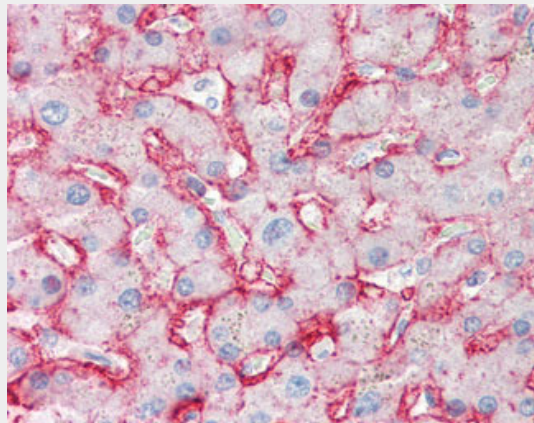
Liver, insulin-producing beta cell, small intestine and kidney.

### SLC2A2 / GLUT2 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](#)

### SLC2A2 / GLUT2 Antibody - Images



Anti-GLUT2 antibody IHC of human liver.

### SLC2A2 / GLUT2 Antibody - Background

Facilitative glucose transporter. This isoform 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. May also participate with the Na(+)/glucose cotransporter in the transcellular transport of glucose in the small intestine and kidney.

### SLC2A2 / GLUT2 Antibody - References

Fukumoto H., et al. Proc. Natl. Acad. Sci. U.S.A. 85:5434-5438(1988).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Muzny D.M., et al. Nature 440:1194-1198(2006).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Matsubara A.,et al.J. Clin. Endocrinol. Metab. 80:3131-3135(1995).