

GLUT1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51519

Specification

GLUT1 Antibody - Product Information

Application	WB, E
Primary Accession	P11166
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55 KDa

GLUT1 Antibody - Additional Information

Gene ID 6513

Other Names

Solute carrier family 2, facilitated glucose transporter member 1, Glucose transporter type 1, erythrocyte/brain, GLUT-1, HepG2 glucose transporter, SLC2A1, GLUT1

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

GLUT1 Antibody - Protein Information

Name SLC2A1 ([HGNC:11005](#))

Function

Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed: [10227690](http://www.uniprot.org/citations/10227690), PubMed: [10954735](http://www.uniprot.org/citations/10954735), PubMed: [18245775](http://www.uniprot.org/citations/18245775), PubMed: [19449892](http://www.uniprot.org/citations/19449892), PubMed: [25982116](http://www.uniprot.org/citations/25982116), PubMed: [27078104](http://www.uniprot.org/citations/27078104), PubMed: [32860739](http://www.uniprot.org/citations/32860739)). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (PubMed: [18245775](http://www.uniprot.org/citations/18245775), PubMed: [19449892](http://www.uniprot.org/citations/19449892)). Most important energy carrier of the brain: present at the blood-brain barrier and assures the energy- independent, facilitative transport of glucose into the brain (PubMed: [10227690](http://www.uniprot.org/citations/10227690)). In association with BSG and NXNL1, promotes retinal cone survival by increasing glucose uptake into photoreceptors (By similarity). Required for

mesendoderm differentiation (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Melanosome. Photoreceptor inner segment {ECO:0000250|UniProtKB:P17809}. Note=Localizes primarily at the cell surface (PubMed:18245775, PubMed:19449892, PubMed:23219802, PubMed:24847886, PubMed:25982116). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065)

Tissue Location

Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues

GLUT1 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](#)

GLUT1 Antibody - Images

GLUT1 Antibody - Background

Facilitative glucose transporter. This isoform may be responsible for constitutive or basal glucose uptake. Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses.

GLUT1 Antibody - References

Mueckler M., et al. Science 229:941-945(1985).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Fukumoto H., et al. Diabetes 37:657-661(1988).
Yu W., et al. Submitted (JUN-1998) to the EMBL/GenBank/DDBJ databases.