10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC2A1 (GLUT1) Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21407b

Specification

SLC2A1 (GLUT1) Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P11166
Reactivity	**Human**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**

SLC2A1 (GLUT1) Antibody (C-term) - 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

Target/Specificity
This SLC2A1 (GLUT1) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 464-497 amino acids from the C-terminal region of human SLC2A1 (GLUT1).

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SLC2A1 (GLUT1) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC2A1 (GLUT1) Antibody (C-term) - Protein Information

Name SLC2A1 (HGNC:11005)

Function Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:10227690, PubMed:10954735, PubMed:18245775, PubMed:19449892,

PubMed:25982116, PubMed:27078104, PubMed:32860739). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (PubMed:18245775, PubMed: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). 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)

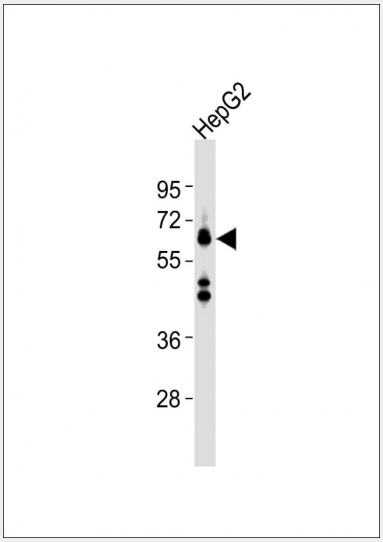
Tissue Location
Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues

SLC2A1 (GLUT1) Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC2A1 (GLUT1) Antibody (C-term) - Images



Anti-SLC2A1 (GLUT1) Antibody (C-term) at 1:1000 dilution + HepG2 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 54 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

SLC2A1 (GLUT1) Antibody (C-term) - 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.

SLC2A1 (GLUT1) Antibody (C-term) - 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.

SLC2A1 (GLUT1) Antibody (C-term) - Citations

- Hyperglycemia in Pregnancy-Associated Oxidative Stress Augments Altered Placental Glucose Transporter 1 Trafficking via AMPKα/p38MAPK Signaling Cascade