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SLC2A1 / GLUT-1 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12174

Specification

SLC2A1 / GLUT-1 Antibody (C-Terminus) - Product Information

Application	**IHC**
Primary Accession	P11166
Reactivity	**Human, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**54kDa KDa**

SLC2A1 / GLUT-1 Antibody (C-Terminus) - 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
Recognizes human Glut-1.

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

Precautions
SLC2A1 / GLUT-1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC2A1 / GLUT-1 Antibody (C-Terminus) - Protein Information

Name SLC2A1 (HGNC:11005)

Function
Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:18245775, PubMed:19449892, PubMed:25982116, PubMed:27078104, PubMed:10227690). 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:<a href="http://www.uniprot.org/citations/10227690"

target="_blank">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:25982116, PubMed:24847886). 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

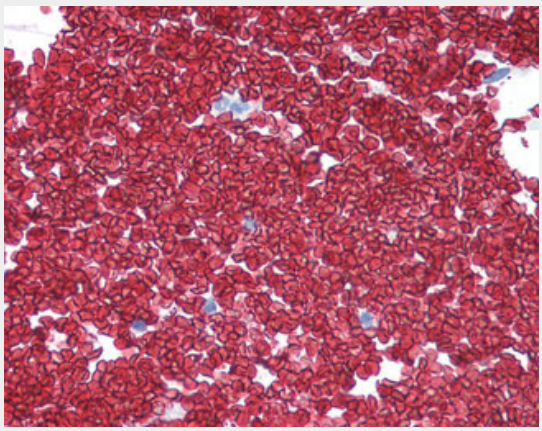
Volume
Array

SLC2A1 / GLUT-1 Antibody (C-Terminus) - 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 / GLUT-1 Antibody (C-Terminus) - Images



Anti-SLC2A1 / GLUT1 antibody IHC of human colon, erythrocytes.

SLC2A1 / GLUT-1 Antibody (C-Terminus) - 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 / GLUT-1 Antibody (C-Terminus) - 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.