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

SLC2A3 Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22174b

Specification

SLC2A3 Antibody (C-Term) - Product Information

Application	**WB, FC,E**
Primary Accession	P11169
Other Accession	Q8TDB8, Q5R608, Q9XSC2
Reactivity	**Human, Mouse, Rat**
Predicted	**Rabbit**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**53924**
Antigen Region	**432-463**

SLC2A3 Antibody (C-Term) - Additional Information

Gene ID 6515

Other Names
Solute carrier family 2, facilitated glucose transporter member 3, Glucose transporter type 3, brain, GLUT-3, SLC2A3, GLUT3

Target/Specificity
This SLC2A3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 432-463 amino acids from human SLC2A3.

Dilution
WB~~1:2000
FC~~1:25
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
SLC2A3 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC2A3 Antibody (C-Term) - Protein Information

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Name SLC2A3 (HGNC:11007)

Function Facilitative glucose transporter (PubMed:26176916, PubMed:32860739, PubMed:9477959). Can also mediate the uptake of various other monosaccharides across the cell membrane (PubMed:26176916, PubMed:9477959). Mediates the uptake of glucose, 2-deoxyglucose, galactose, mannose, xylose and fucose, and probably also dehydroascorbate (PubMed:26176916, PubMed:9477959). Does not mediate fructose transport (PubMed:26176916, PubMed:9477959). Required for mesendoderm differentiation (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein. Perikaryon {ECO:0000250|UniProtKB:Q07647}. Cell projection {ECO:0000250|UniProtKB:Q07647}. Note=Localized to densely spaced patches along neuronal processes. {ECO:0000250|UniProtKB:Q07647}

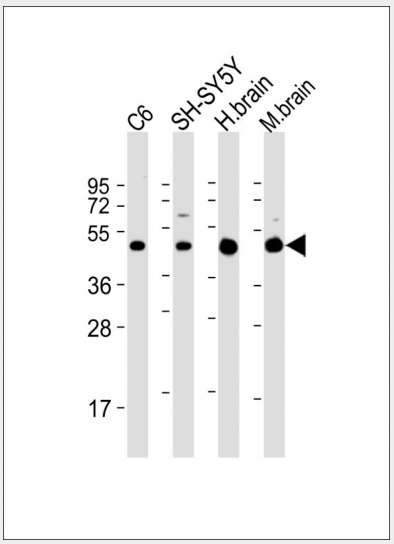
Tissue Location
Highly expressed in brain (PubMed:8457197). Expressed in many tissues.

SLC2A3 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

SLC2A3 Antibody (C-Term) - Images



All lanes : Anti-SLC2A3 Antibody (C-Term) at 1:2000 dilution Lane 1: C6 whole cell lysate Lane 2: SH-SY5Y whole cell lysate Lane 3: human brain lysate Lane 4: mouse brain lysate 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.

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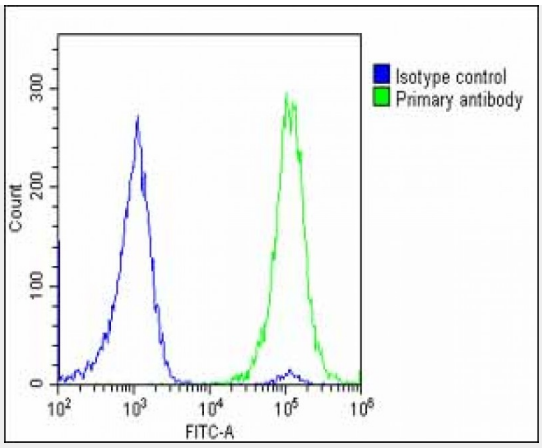

Overlay histogram showing U-2 OS cells stained with AP22174b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22174b, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

SLC2A3 Antibody (C-Term) - Background

Facilitative glucose transporter. Probably a neuronal glucose transporter.

SLC2A3 Antibody (C-Term) - References

Kayano T.,et al.J. Biol. Chem. 263:15245-15248(1988).
Stuart C.A.,et al.Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.