

## **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

Reactivity

OSTDB8, OSR608, O9XSC2

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



### Name SLC2A3 (<u>HGNC:11007</u>)

**Function** Facilitative glucose transporter (PubMed:<u>26176916</u>, PubMed:<u>32860739</u>, PubMed:<u>9477959</u>). Can also mediate the uptake of various other monosaccharides across the cell membrane (PubMed:<u>26176916</u>, PubMed:<u>9477959</u>). Mediates the uptake of glucose, 2-deoxyglucose, galactose, mannose, xylose and fucose, and probably also dehydroascorbate (PubMed:<u>26176916</u>, PubMed:<u>9477959</u>). Does not mediate fructose transport (PubMed:<u>26176916</u>, PubMed:<u>9477959</u>). 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**

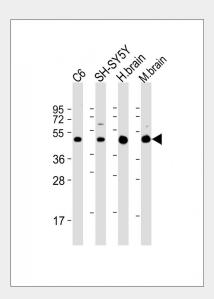
Highly expressed in brain (PubMed:8457197). Expressed in many tissues.

### SLC2A3 Antibody (C-Term) - Protocols

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

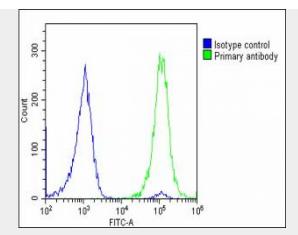
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# 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.





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 37 $^{\circ}$ C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37 $^{\circ}$ C. Isotype control antibody (blue line) was rabbit IgG1 (1 $\mu$ g/1x10 $^{\circ}$ 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.