SLC2A3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC2A3, Polyclonal Antibody
Full Product Name	SLC2A3 Antibody, FITC conjugated
Product Gene Name	anti-SLC2A3 antibody
Product Synonym Names	Solute carrier family 2; facilitated glucose transporter member 3; Glucose transporter type 3; brain; GLUT-3; SLC2A3; GLUT3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: SLC2A3 (MBS7045682) FITC Conjugated Antibody: SLC2A3 (MBS7043627)
Molecular Weight	53,924 Da
OMIM	138170
3D Structure	ModBase 3D Structure for P11169
Species	Human
Immunogen	Recombinant human Solute carrier family 2, facilitated glucose transporter member 3 protein
Conjugate	FITC
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-7582 / sc-7581 / sc-31836 / sc-31837 / sc-30107
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SLC2A3 antibody	ELISA (EIA)
Related Product Information for anti-SLC2A3 antibody	Facilitative glucose transporter that can also mediate the uptake of various other monosaccharides across the cell membrane (PubMed:9477959, PubMed:26176916). Mediates the uptake of glucose, 2-deoxyglucose, galactose, mannose, xylose and fucose, and probably also dehydroascorbate (PubMed:9477959, PubMed:26176916). Does not mediate fructose transport (PubMed:9477959, PubMed:26176916).
Other Notes	Small volumes of anti-SLC2A3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SLC2A3 purchase	MBS7043627 is an antibody targeting SLC2A3. Also known as SLC2A3 Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC2A3. It may not necessarily be applicable to this product.

NCBI GI #	5902090
NCBI GeneID	6515
NCBI Accession #	NP_008862.1
UniProt Primary Accession #	P11169
UniProt Secondary Accession #	Q6I9U2; Q9UG15; B2R606; D3DUU6
UniProt Related Accession #	P11169
GenBank Nucleotide #	NM_006931.2
NCBI Official Full Name	solute carrier family 2, facilitated glucose transporter member 3
NCBI Official Synonym Full Names	solute carrier family 2 member 3
NCBI Official Symbol	SLC2A3
NCBI Official Synonym Symbols	GLUT3
UniProt Protein Name	Solute carrier family 2, facilitated glucose transporter member 3
UniProt Synonym Protein Names	Glucose transporter type 3, brain; GLUT-3
Protein Family	Solute carrier family
UniProt Gene Name	SLC2A3
UniProt Synonym Gene Names	GLUT3; GLUT-3
UniProt Entry Name	GTR3_HUMAN
NCBI Protein Information	solute carrier family 2, facilitated glucose transporter member 3
UniProt Comments for SLC2A3	GLUT3: an integral membrane facilitative glucose transporter. One of 13 members of the human equilibrative glucose transport protein family. It???s surface expression is induced by insulin. It is restricted in humans to brain, testis (in the spermatozoa), and skeletal muscle, mostly in triads of slow-twitch fibres. Detected only in the brain of mouse and rat. IHC demonstrates its present in neurons, mainly at the plasma membrane, and to a lesser extent on intracellular vesicles distinct from synaptic vesicles. Present in the a-granules of human platelets, where it is translocated to the cell surface in response to thrombin stimulation. Its surface expression is increased by insulin or insulin growth-factor in cultured L6 muscle cells. Protein type: Membrane protein, multi-pass; Transporter, SLC family; Membrane protein, integral; Transporter Chromosomal Location of Human Ortholog: 12p13.3 Cellular Component: integral to membrane; integral to plasma membrane; plasma membrane Molecular Function: D-glucose transmembrane transporter activity; dehydroascorbic acid transporter activity; glucose binding; glucose transmembrane transporter activity Biological Process: glucose transport; L-ascorbic acid metabolic process
Research Articles on SLC2A3	**1.** Using lipidic cubic phase crystallization and microfocus X-ray diffraction, we determined the structure of human GLUT3 in complex with D-glucose at 1.5 A resolution in an outward-occluded conformation
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