Glucose Transporter GLUT3 Blocking Peptide

PRODUCT OVERVIEW

Product Name	Glucose Transporter GLUT3, Blocking Peptide
Full Product Name	Glucose Transporter GLUT3 Peptide
Product Gene Name	GLUT3 blocking peptide
Product Synonym Names	brain; FLJ90380; Glucose Transporter Type 3; GLUT3; SLC2A3; Solute Carrier Family 2 (Facilitated Glucose Transporter) Member 3 antibody
Form/Format	Antigenic Blocking Peptide
Concentration	Quantity: 250 ug; Volume: 100 ul (lot specific)
Preparation and Storage	-20• degree C for long term storage
Antibody/Peptide Pairs	Glucose Transporter GLUT3 peptide (MBS543766) is used for blocking the activity of Glucose Transporter GLUT3 antibody (MBS540866)
Antibody/Peptide Pairs	Glucose Transporter GLUT3 peptide (MBS543766) is used for blocking the activity of Glucose Transporter GLUT3 antibody (MBS541718)
Antibody/Peptide Pairs	Glucose Transporter GLUT3 peptide (MBS543766) is used for blocking the activity of Glucose Transporter GLUT3 antibody (MBS541719)
Molecular Weight	53,924 Da
OMIM	138170
Immunogen	Synthetic peptide corresponding to unique amino acid sequences on rat GLUT3 protein.
Expression	Brain and many other tissues.
Molecular Function	Sugar Transport
Structure	Transmembrane helix
Subcellular Location	Membrane; Multi-pass membrane protein
Applications Tested/Suitable for GLUT3 blocking peptide	Immunodepletion, Immunocompetition
Application Notes for GLUT3 blocking peptide	Confocal Microscopy||1:250 Immunocytochemistry: 1:250 Immunofluorescence: 1:250 Immunohistochemistry: 1:250 Western Blot: 1:8,000
Related Product Information for GLUT3 blocking peptide	Antigenic Blocking Peptide Solute carrier family 2, facilitated glucose transporter member 3 Facilitative glucose transporter.
Other Notes	Small volumes of GLUT3 blocking peptide 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 GLUT3 purchase	MBS543766 is a blocking peptide targeting GLUT3. Also known as Glucose Transporter GLUT3 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLUT3. It may not necessarily be applicable to this product.

NCBI GI #	5902090
NCBI GeneID	6515
NCBI Accession #	NP_008862
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	Glucose transporter
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 GLUT3	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, integral; Membrane protein, multi-pass; Transporter; Transporter, SLC family 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 GLUT3	**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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