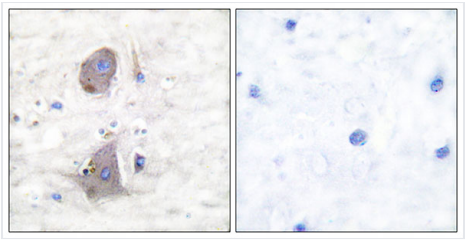
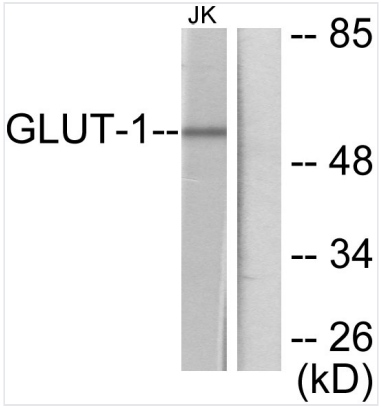
GLUT1 Antibody

PRODUCT OVERVIEW

Product Name	GLUT1, Antibody
Full Product Name	GLUT1 Antibody
Product Gene Name	anti-GLUT1 antibody
Product Synonym Names	ERYTHROCYTE/HEPATOMA GLUCOSE TRANSPORTER; GLUCOSE TRANSPORTER 1
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	GLUT1 antibody detects endogenous levels of total GLUT1 protein.
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	54,084 Da
OMIM	138140
3D Structure	ModBase 3D Structure for P11166
Immunogen	The antiserum was produced against synthesized peptide derived from human GLUT1.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GLUT1 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-GLUT1 antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:40000
Related Product Information for anti-GLUT1 antibody	MBS856461 is an antibody targeting GLUT1. Also known as GLUT1 Antibody. Reactive in Human, Mouse, Rat.
Product References and Citations for anti-GLUT1 antibody	Dong Wang, Hum. Mol. Genet., Apr 2006; 15: 1169-1179. Nezha Samih, Endocrinology, Nov 2000; 141: 4146. Charles W. Heilig, Am J Physiol Renal Physiol, Apr 2001; 280: 657. Bess Adkins Marshall, Am J Physiol Endocrinol Metab, Feb 1999; 276: E390-E400.
Other Notes	Small volumes of anti-GLUT1 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.



Testing Data of anti-GLUT1 antibody
Peptide - +Immunohistochemical analysis of paraffin-embedded human brain tissue using GLUT1 antibody (#C0213).



Testing Data #2 of anti-GLUT1 antibody
Western blot analysis of extracts from Jurkat cells, using GLUT1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLUT1. It may not necessarily be applicable to this product.

NCBI GI #	166795299
NCBI GeneID	6513
NCBI Accession #	NP_006507.2
UniProt Primary Accession #	P11166
UniProt Secondary Accession #	O75535; Q147X2; A8K9S6; B2R620; D3DPX0
UniProt Related Accession #	P11166
GenBank Nucleotide #	NM_006516.2
NCBI Official Full Name	solute carrier family 2, facilitated glucose transporter member 1
NCBI Official Synonym Full Names	solute carrier family 2 member 1
NCBI Official Symbol	SLC2A1
NCBI Official Synonym Symbols	CSE; PED; DYT9; GLUT; DYT17; DYT18; EIG12; GLUT1; HTLVR; GLUT-1; SDCHCN; GLUT1DS
UniProt Protein Name	Solute carrier family 2, facilitated glucose transporter member 1
UniProt Synonym Protein Names	Glucose transporter type 1, erythrocyte/brain; GLUT-1; HepG2 glucose transporter
Protein Family	Glucose transporter
UniProt Gene Name	SLC2A1
UniProt Synonym Gene Names	GLUT1; GLUT-1
NCBI Protein Information	solute carrier family 2, facilitated glucose transporter member 1
NCBI Summary for GLUT1	This gene encodes a major glucose transporter in the mammalian blood-brain barrier. The encoded protein is found primarily in the cell membrane and on the cell surface, where it can also function as a receptor for human T-cell leukemia virus (HTLV) I and II. Mutations in this gene have been found in a family with paroxysmal exertion-induced dyskinesia. [provided by RefSeq, Apr 2013]
UniProt Comments for GLUT1	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.
Research Articles on GLUT1	**1.** the TT genotype in XbaI G>T SNP and CC genotype of HaeIII T>C SNP may have protective effect in the carcinogenesis process of UCC. In the XbaI G>T SNP, the GG genotype of was positively related to tumor proliferation, glucose metabolism, tumor grade and stage.

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