

Mouse GLUT-1 Monoclonal Antibody | anti-GLUT-1 antibody

GLUT-1 (Tumor Progression and Mesothelioma Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214686	Mouse	Human. Others not known.	Immunohistochemistry, ELISA

PRODUCT SYNONYMS

GLUT-1; Monoclonal Antibody; GLUT-1 (Tumor Progression and Mesothelioma Marker); Erythrocyte/hepatoma glucose transporter; Glucose transporter type-1; GLUT1; GLUT1DS; GLUTB; GT1; GTG1; Gtg3; HepG2 glucose transporter; PED; RATGTG1; Solute carrier family 2; facilitated glucose transporter member 1 (SLC2A1); anti-GLUT-1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	GLUT1/2476
Specificity	Recognizes a protein of 55kDa, which is identified as GLUT-1. Glucose transporters are integral membrane glycoproteins involved in transporting glucose into most cells. There are many types of glucose transport carrier proteins, designated as Glut-1 to Glut-12. Glut-1 is a major glucose transporter in the mammalian blood-brain barrier. It is expressed in high density on the membranes of human erythrocytes and the brain capillaries that comprise the blood-brain barrier. Glut-1 is expressed at variable levels in many human tissues. Overexpression of Glut-1 has been linked to tumor progression or poor survival of patients with carcinomas of the colon, breast, cervical, lung, bladder and mesothelioma. Glut-1 is a sensitive and specific marker for the differentiation of malignant mesothelioma (positive) from reactive mesothelium (negative).
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	492
Applicable Applications for anti-GLUT-1 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant fragment of human GLUT1 protein (around aa 203-305)
Cellular Localization	Cell Surface
Hu-chromosome Location	1p34.2
Positive Control	MDA-MB-231 cells or erythrocytes. Mesothelioma or breast, colon and ovarian carcinoma.

IMAGES



Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using GLUT-1 Mouse Monoclonal Antibody (GLUT1/2476).Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified GLUT-1 Mouse Monoclonal Antibody (GLUT1/2476).Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Bladder stained with GLUT-1 Mouse Monoclonal Antibody (GLUT1/2476).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with GLUT-1 Mouse Monoclonal Antibody (GLUT1/2476).

NCBI AND UNIPROT INFORMATION

NCBI GI #	166795299
NCBI GeneID	6513
NCBI Accession #	NP_006507.2
NCBI GenBank Nucleotide #	NM_006516.3
UniProt Accession #	P11166; O75535; Q147X2; A8K9S6; B2R620; D3DPX0
Molecular Weight	55kDa
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
NCBI Protein Information	solute carrier family 2, facilitated glucose transporter member 1
UniProt Protein Name	Solute carrier family 2, facilitated glucose transporter member 1
UniProt Gene Name	SLC2A1
UniProt Synonym Gene Names	GLUT1; GLUT-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.