SLC2A1 Polyclonal Antibody | anti-SLC2A1 antibody

Anti-SLC2A1 Antibody

CATALOG #	REACTIVITY	APPLICATIONS
AAA11642	**Human, Mouse, Rat**	**Western Blot, Immunohistochemistry, Immunocytochemistry**

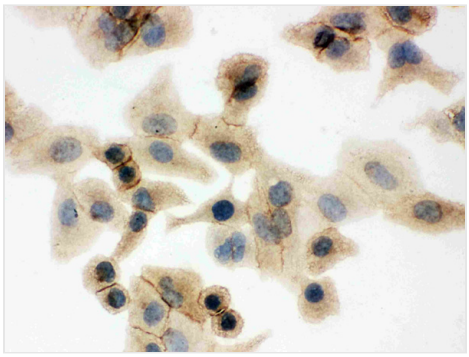
PRODUCT SYNONYMS

SLC2A1; Polyclonal Antibody; Anti-SLC2A1 Antibody; Solute carrier family 2; facilitated glucose transporter member 1; DYT17; DYT18; erythrocyte/brain; Erythrocyte/brain HepG2 glucose transporter; Erythrocyte/hepatoma glucose transporter; Glucose transporter 1; Glucose transporter type 1; Glucose transporter type 1 erythrocyte/brain; GLUT; GLUT-1; GLUT1; GLUT1DS; GLUTB; GT1; GTG1; Gtg3; GTR1_HUMAN; HepG2 glucose transporter; MGC141895; MGC141896; PED; RATGTG1; SLC2A 1; Solute carrier family 2 (facilitated glucose transporter); member 1; Solute carrier family 2 facilitated glucose transporter member 1; solute carrier family 2 (facilitated glucose transporter); anti-SLC2A1 antibody

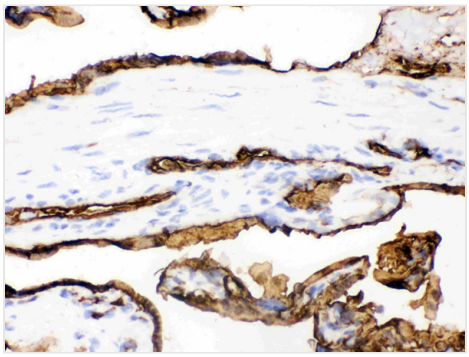
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	492
Applicable Applications for anti-SLC2A1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry)
Application Notes	Western Blot Concentration: 0.1-0.5ug/ml Immunohistochemistry (IHC) Paraffin Concentration: 0.5-1ug/ml Immunohistochemistry (IHC) Formalin Concentration: 0.5-1ug/ml Immunocytochemistry Concentration: 0.5-1ug/ml
Immunogen	E Coli-derived human SLC2A1 recombinant protein (Position: R92-V492). Human SLC2A1 shares 98% and 98.3% amino acid (aa) sequence identity with mouse and rat SLC2A1, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

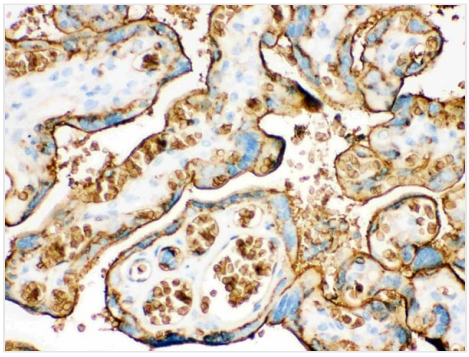
IMAGES



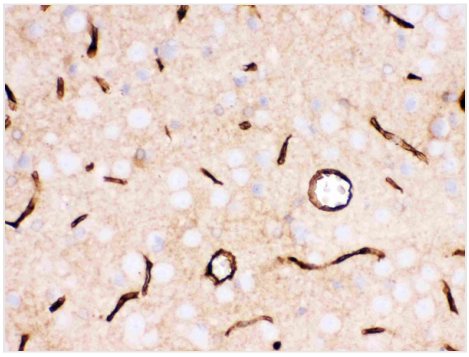
ICC (Immunocytochemistry)
Anti- SLC2A1 Picoband antibody, AAA11642, ICCICC: A549 Cell



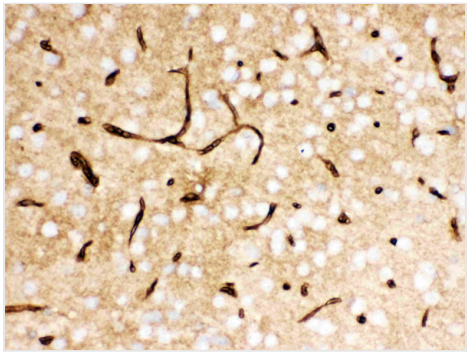
IHC (Immunohistochemistry)
Anti- SLC2A1 Picoband antibody, AAA11642, IHC(F)IHC(F): Human Placenta Tissue



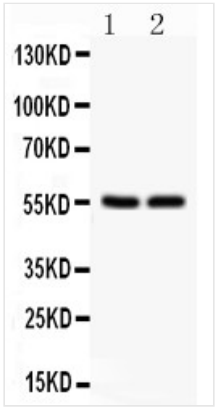
IHC (Immunohistochemistry)
Anti- SLC2A1 Picoband antibody, AAA11642, IHC(P)IHC(P): Human Placenta Tissue



IHC (Immunohistochemistry)
Anti- SLC2A1 Picoband antibody, AAA11642, IHC(P)IHC(P): Rat Brain Tissue



IHC (Immunohistochemistry)
Anti- SLC2A1 Picoband antibody, AAA11642, IHC(P)IHC(P): Mouse Brain Tissue



WB (Western Blot)
Anti- SLC2A1 Picoband antibody, AAA11642, Western blottingAll lanes: Anti SLC2A1 (AAA11642) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: JURKAT Whole Cell Lysate at 40ugPredicted bind size: 55KDObserved bind size: 55KD

ADDITIONAL INFORMATION

Related Product Information for anti-SLC2A1 antibody

Description: Rabbit IgG polyclonal antibody for Solute carrier family 2, facilitated glucose transporter member 1(SLC2A1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

Background: GLUT1, also known as SLC2A1, is a major glucose transporter in the mammalian blood-brain barrier whose gene is mapped to 1p35-p31.3 and contains 10 exons. It is present at high levels in primate erythrocytes and brain endothelial cells. Not only can transport dehydroascorbic acid (the oxidized form of vitamin C) into the brain, GLUT1 is also likely to contribute to HTLV-associated disorders through interacting with HTLV envelope glycoproteins. Functionally, GLUT1 deficiency causes a decrease in embryonic glucose uptake and apoptosis, which may be involved in diabetic embryopathy, by contrast, an increased expression of GLUT1 in some malignant tumors may suggest a role for glucose-derivative tracers to detect in vivo thyroid cancer metastases by positron-emission tomography scanning.

References	1. Agus, D. B.; Gambhir, S. S.; Pardridge, W. M.; Spielholz, C.; Baselga, J.; Vera, J. C.; Golde, D. W. : Vitamin C crosses the blood-brain barrier in the oxidized form through the glucose transporters. J. Clin. Invest. 100: 2842-2848, 1997. 2. Heilig, C. W.; Saunders, T.; Brosius, F. C., III; Moley, K.; Heilig, K.; Baggs, R.; Guo, L.; Conner, D. : Glucose transporter-1-deficient mice exhibit impaired development and deformities that are similar to diabetic embryopathy. Proc. Nat. Acad. Sci. 100: 15613-15618, 2003. 3. Lazar, V.; Bidart, J.-M.; Caillou, B.; Mahe, C.; Lacroix, L.; Filetti, S.; Schlumberger, M. : Expression of the Na(+)/I(-) symporter gene in human thyroid tumors: a comparison study with other thyroid-specific genes. J. Clin. Endocr. Metab. 84: 3228-3234, 1999. 4. Manel, N.; Kim, F. J.; Kinet, S.; Taylor, N.; Sitbon, M.; Battini, J.-L. : The ubiquitous glucose transporter GLUT-1 is a receptor for HTLV. Cell 115: 449-459, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	166795299
NCBI GeneID	6513
NCBI Accession #	NP_006507.2
NCBI GenBank Nucleotide #	NM_006516.2
UniProt Accession #	P11166; O75535; Q147X2; A8K9S6; B2R620; D3DPX0
Molecular Weight	54,084 Da
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
UniProt Entry Name	GTR1_HUMAN

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.

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