

Datasheet for ABIN3043927
anti-GLUT1 antibody (AA 92-492)

7 Images

1 Publication

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Overview

Quantity:	100 µg
Target:	GLUT1 (SLC2A1)
Binding Specificity:	AA 92-492
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLUT1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	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.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	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. Gene Name: solute carrier family 2 (facilitated glucose transporter), member 1

Product Details

Protein Name: Solute carrier family 2, facilitated glucose transporter member 1

Purification: Immunogen affinity purified.

Target Details

Target: GLUT1 (SLC2A1)

Alternative Name: SLC2A1 ([SLC2A1 Products](#))

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.

Synonyms: DYT17 antibody|DYT18 antibody|erythrocyte/brain antibody|Erythrocyte/brain HepG2 glucose transporter antibody|Erythrocyte/hepatoma glucose transporter antibody|facilitated glucose transporter member 1 antibody|Glucose transporter 1 antibody|Glucose transporter type 1 antibody|Glucose transporter type 1 erythrocyte/brain antibody|Glucose transporter type 1, erythrocyte/brain antibody|GLUT antibody|GLUT-1 antibody|GLUT1 antibody|GLUT1DS antibody| GLUTB antibody|GT1 antibody|GTG1 antibody|Gtg3 antibody|GTR1_HUMAN antibody|HepG2 glucose transporter antibody|MGC141895 antibody|MGC141896 antibody|PED antibody|RATGTG1 antibody| SLC2A1 antibody|SLC2A1 antibody|Solute carrier family 2 (facilitated glucose transporter), member 1 antibody|Solute carrier family 2 antibody|Solute carrier family 2 facilitated glucose transporter member 1 antibody|Solute carrier family 2, facilitated glucose transporter member 1 antibody

Gene ID: 6513

UniProt: [P11166](#)

Pathways: [Sensory Perception of Sound](#), [Dicarboxylic Acid Transport](#), [Warburg Effect](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for SLC2A1 is

Application Details

approximately 0.1 ng/lane under reducing conditions.

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human

ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human

Notes: Tested Species: Species with positive results. Other applications have not been tested.

Optimal dilutions should be determined by end users.

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) , IHC(F) and ICC.
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
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Concentration:	500 µg/mL
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Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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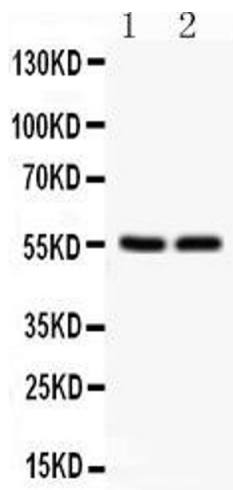
Handling Advice:	Avoid repeated freezing and thawing.
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Storage:	4 °C/-20 °C
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Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
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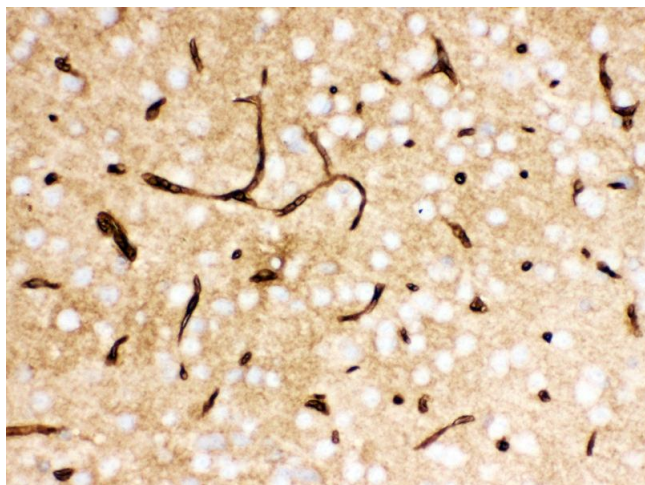
Publications

Product cited in:	Li, Zhao, Qi, Wang, Zhang, Li, Qin: "lncRNA Ftx promotes aerobic glycolysis and tumor progression through the PPAR γ pathway in hepatocellular carcinoma." in: International journal of oncology , Vol. 53, Issue 2, pp. 551-566, (2018) (PubMed).
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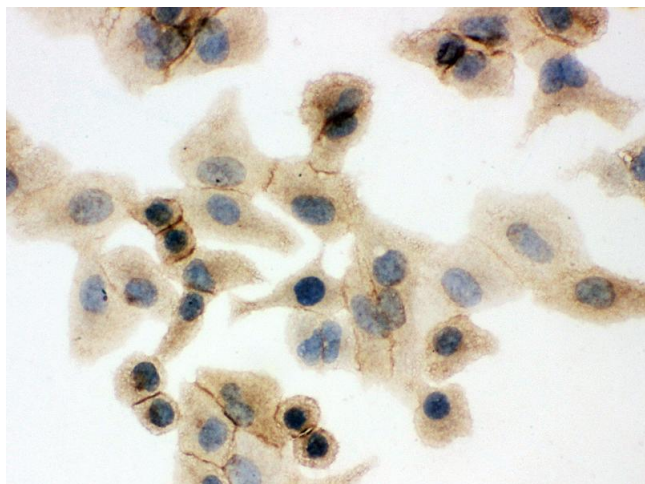
Western Blotting

Image 1. Anti- SLC2A1 Picoband antibody, Western blotting All lanes: Anti SLC2A1 at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: JURKAT Whole Cell Lysate at 40ug Predicted bind size: 55KD Observed bind size: 55KD



Immunohistochemistry

Image 2. Anti- SLC2A1 Picoband antibody, IHC(P) IHC(P): Mouse Brain Tissue



Immunohistochemistry

Image 3. Anti- SLC2A1 Picoband antibody, ICC ICC: A549 Cell

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3043927.