Product Datasheet

GLUT1 Antibody

Catalog No: CY1071 Reactivity: Human, Mouse, Rat

Isotype: Rabbit IgG Applications: WB IHC

Abways TECHNOLOGY

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Information

UniProt ID: P11166

All Names: DYT17; DYT18; Glucose transporter type 1, erythrocyte/brain; GLUT; GLUT-1; GLUT1; GTR1; HepG2 glucose transporter; MGC141895; MGC141896; PED; SLC2A1; solute carrier family 2 (facilitated glucose transporter), member 1; Solute carrier family 2, facilitate

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide derived from human GLUT1

Molecular Wt.: 55 kDa

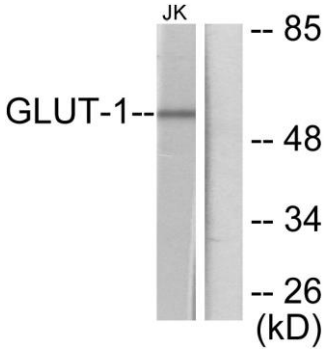
Application

WB: 1:500~1:3000

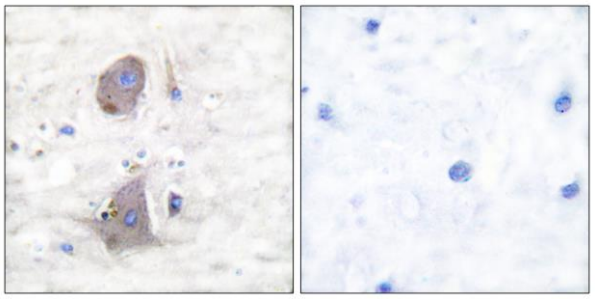
IHC: 1:50~1:200

Background

GLUT1 an integral membrane protein that plays an important role in the glycolytic pathway by serving as a uniporter for glucose. One of 13 members of the human equilibrative glucose transport protein family. Transports a wide range of aldoses, including both pentoses and hexoses, and dehydroascorbic acid. Shown to transport water against an osmotic gradient. A receptor for the Human T-cell Leukemia virus (HTLV). Plays a role in the constitutive or basal uptake of glucose. Expressed at highest levels in proliferating cells of the early developing embryo, cells forming the blood tissue barriers, in human erythrocytes, astrocytes and in cardiac muscle. GLUT1 and GLUT3 are both essential for normal embryonic developme.



Western blot analysis of extracts from Jurkat cells, using GLUT1 antibody.



Immunohistochemical analysis of paraffin-embedded human brain tissue using GLUT1 antibody.