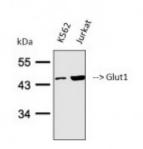


## **Anti-Glut1 antibody**



Western Blot (WB) analysis of HeLa cell lysate using Glut1 Antibody (STJ93293).



**Description** Glut 1 is a protein encoded by the SLC2A1 gene which is approximately

54 kDa. Glut1 is localised to the cell membrane. It is involved in the transport of glucose, bile salts, organic acids, metal ions and amine compounds, the metabolism of water-soluble vitamins and cofactors, and hexose transport. It is a glucose transporter that enables the movement of glucose across the cell membrane. Glucose is an essential source of energy for mammalian cells, and is also used as a substrate in protein and lipid synthesis. Glut1 is expressed in the nervous system, liver, kidney, intestine and skin. Mutations in the SLC2A1 gene may result in dystonia and Glut1 deficiency syndrome. STJ93293 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of Glut1 protein.

Model STJ93293

**Host** Rabbit

**Reactivity** Human, Mouse, Rat

**Applications** ELISA, IHC, WB

Immunogen Synthesized peptide derived from human Glut1

**Immunogen Region** 410-490 aa, C-terminal

**Gene ID** <u>6513</u>

Gene Symbol SLC2A1

**Dilution range** WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000

**Specificity** Glut1 Polyclonal Antibody detects endogenous levels of Glut1 protein.

**Tissue Specificity** Detected in erythrocytes (at protein level). Expressed at variable levels in

many human tissues.

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Note** For Research Use Only (RUO).

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

transporter type 1, erythrocyte/brain GLUT-1 HepG2 glucose transporter

Molecular Weight 55 kDa

**Clonality** Polyclonal

**Conjugation** Unconjugated

**Isotype** IgG

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links HGNC:110050MIM:138140

Alternative Names Solute carrier family 2, facilitated glucose transporter member 1 Glucose

transporter type 1, erythrocyte/brain GLUT-1 HepG2 glucose transporter

**Function** 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.

Cellular Localization Cell membrane. Multi-pass membrane protein. Melanosome. Localizes

primarily at the cell surface. Identified by mass spectrometry in melanosome

fractions from stage I to stage IV.

St John's Laboratory Ltd

**F** +44 (0)207 681 2580 **T** +44 (0)208 223 3081

W http://www.stjohnslabs.com/ E info@stjohnslabs.com