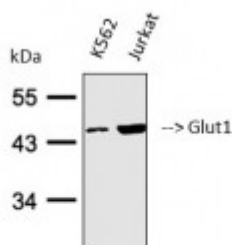


Anti-Glut1 antibody



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



Description

Glut1 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	6513
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:11005OMIM: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.