Name: Rabbit Polyclonal Antibody against GLUT1

Components: • Rabbit Polyclonal Antibody against GLUT1 (TA301678)

Amount: 100ul

Immunogen: A synthetic peptide made to an N-terminal region of the human GLUT1 protein (between residues 1-100). [Swiss-Prot #P11166]

Host: Rabbit

Isotype: IgG

Species Reactivity: human

Guaranteed Applications: WB, IF

Suggested Dilutions: WB: 0.5-2 ug/ml

Concentration: Lot dependent; please refer to CoA along with shipment

Buffer: Tris-glycine, 150mM NaCl and 0.05% sodium azide

Purification: Immunogen affinity purified

Storage Condition: Shipped at -20C or with ice packs. Upon delivery store at -20C. Dilute in PBS (pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

Target

Target Name: solute carrier family 2 member 1

Alternative Name: CSE|DYT17|DYT18|DYT9|EIG12|GLUT|GLUT-1|GLUT1|GLUT1DS|HTLVR|PED|SDCHCN

Database Link: NP_006507

Entrez Gene 6513 Human

Function: Glucose transporters are integral membrane glycoproteins involved in transporting glucose into most cells. There are seven types of glucose transport carrier proteins, designated as Glut 1 to 7. Molecular cloning of glucose transporters have identified a family of closely related genes that encodes at least 7 proteins exhibiting high degree of amino acid homology (45% to 65%), all in the molecular weight range of 40 to 60 kDa. Some transporters exhibit dynamic trafficking between intracellular storage sites and plasma membranes in response to various stimuli. In some tissues Glut proteins are asymmetrically distributed between apical and basolateral membranes, as in blood brain barrier and blood testis barriers.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

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GLUT1 is a major glucose transporter in the mammalian blood brain barrier. It is ubiquitous, and is present at high levels in primate erythrocytes and brain endothelial cells.
Validation Data

Western Blot: GLUT1 Antibody - Analysis of GLUT1 on A. mouse kidney membrane protein and B. rat kidney membrane protein.

Western Blot: GLUT1 Antibody - Analysis of HeLa lysates using GLUT1 antibody.

Immunocytochemistry/Immunofluorescence: GLUT1 antibody was tested in HEK-293 cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).

* More validation images may be available on our website: http://www.origene.com/antibody/TA301678.aspx