

Glut-1 (PT0861R) PT™ Rabbit mAb

CatalogNo: YM8630 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 54kD (Calculated)
- 50-300kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

IHC 1:1000-1:5000**WB 1:10000-1:50000****IF 1:200-1:1000****ELISA 1:5000-1:20000**

Basic Information

Clonality Monoclonal**Clone Number** PT0861R

Immunogen Information

Specificity Endogenous

Target Information

Gene name SLC2A1

Protein Name Solute carrier family 2 facilitated glucose transporter member 1

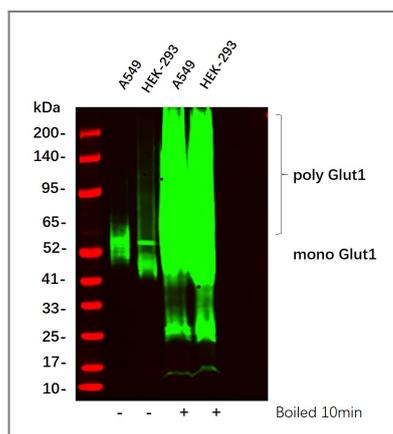
Organism	Gene ID	UniProt ID
Human	6513 ;	P11166 ;
Mouse	20525 ;	P17809 ;
Rat	24778 ;	P11167 ;

Cellular Localization Cell membrane ; Multi-pass membrane protein . Melanosome . Photoreceptor inner segment . Localizes primarily at the cell surface (PubMed:18245775, PubMed:19449892, PubMed:23219802, PubMed:25982116, PubMed:24847886). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065). .

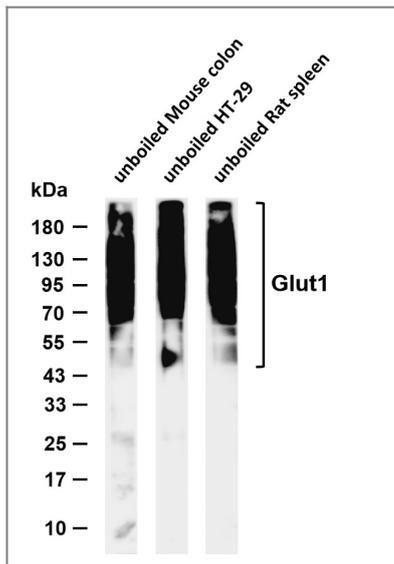
Tissue specificity Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues.

Function Disease:Defects in SLC2A1 are the cause of autosomal dominant GLUT1 deficiency syndrome [MIM:606777]; also called blood-brain barrier glucose transport defect. This disease causes a defect in glucose transport across the blood-brain barrier. It is characterized by infantile seizures, delayed development, and acquired microcephaly.,Disease:Defects in SLC2A1 are the cause of dystonia type 18 (DYT18) [MIM:612126]. DYT18 is an exercise-induced paroxysmal dystonia/dyskinesia. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYT18 is characterized by attacks of involuntary movements triggered by certain stimuli such as sudden movement or prolonged exercise. In some patients involuntary exertion-induced dystonic, choreoathetotic, and ballistic movements may be associated with macrocytic hemolytic anemia.,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.,online information:GLUT1 entry,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily.,subcellular location:Localizes primarily at the cell surface (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,tissue specificity:Expressed at variable levels in many human tissues.,

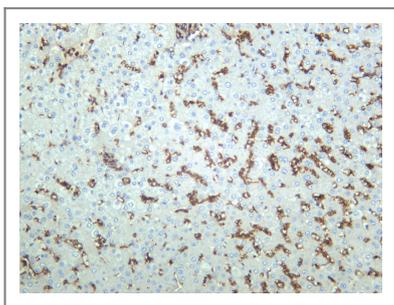
Validation Data



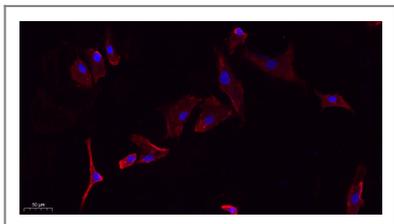
Western Blot analysis using various cell lysate, Proteins were separated by 4-20% SDS-PAGE, and the membrane was blotted with Glut1 Rabbit mAb diluted at 1:2000. Secondary :Dylight 800, Goat Anti Rabbit IgG(RS23920 1:10000)



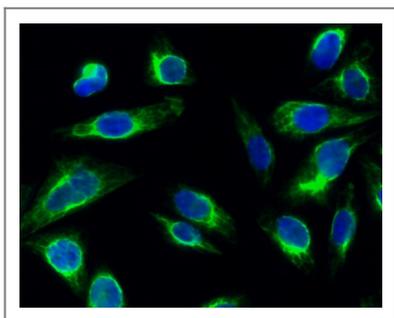
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Glut1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: unboiled Mouse colon Lane 2: unboiled HT-29 Lane 3: unboiled Rat spleen Predicted band size: 54kDa Observed band size: 50-300kDa



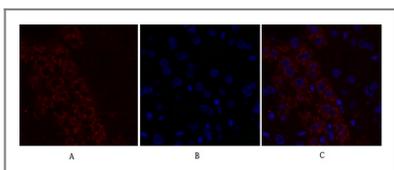
Human tonsil was stained with anti-Glut1 rabbit antibody



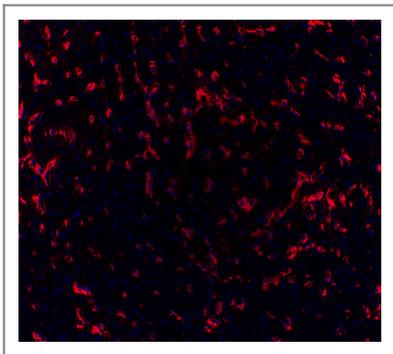
Immunofluorescence analysis of A549. 1, primary Antibody (red) was diluted at 1:200 (4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000 (room temperature, 50min). 3, DAPI (blue) 10min.



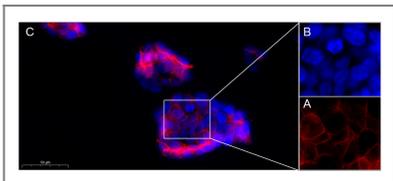
Immunofluorescence analysis of HeLa cell. 1, Glut1 Monoclonal Antibody (green) was diluted at 1:200 (4°C overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog: RS3211 was diluted at 1:1000 (room temperature, 50min). 3 DAPI (blue) 10min.



Immunofluorescence analysis of mouse-liver tissue. 1, Glut1 Monoclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of Human liver



Immunofluorescence analysis of HT-29 cell. 1,primary Antibody was diluted at 1:200(4~C overnight). 2, Goat Anti Rabbit IgG (H&L) - AF594 Secondary antibody(catalog No: RS3611) was diluted at 1:500(room temperature, 50min).

Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: <http://www.immunoway.com>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:
Glut-1 (PT0861R)
PT™ Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

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