

GLUT1 Antibody

Rabbit mAb

Catalog # AP90399

Product Information

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|--------------------------|--|
| Application | WB, IHC, IF, FC, ICC, IHF |
| Primary Accession | P11166 |
| Reactivity | Rat, Human, Mouse |
| Clonality | Monoclonal |
| Other Names | DYT17; DYT18; Glucose transporter type 1, erythrocyte/brain; GLUT; GLUT-1; GLUT1; GTR1; HepG2 glucose transporter; |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 54084 |

Additional Information

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| Dilution | WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:50 |
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human Glucose Transporter GLUT1 |
| Description | 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. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

Protein Information

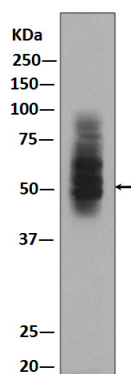
| | |
|--------------------------|---|
| Name | SLC2A1 (HGNC:11005) |
| Function | Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed: 10227690 , PubMed: 10954735 , PubMed: 18245775 , PubMed: 19449892 , PubMed: 25982116 , PubMed: 27078104 , PubMed: 32860739). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (PubMed: 18245775 , PubMed: 19449892). Most important energy carrier of the brain: present at the blood-brain barrier and assures the energy-independent, facilitative transport of glucose into the brain (PubMed: 10227690). In association with BSG and NXNL1, promotes retinal cone survival by increasing glucose uptake into photoreceptors (By similarity). Required for mesendoderm differentiation (By similarity). |
| Cellular Location | Cell membrane; Multi-pass membrane protein. Melanosome. Photoreceptor |

inner segment {ECO:0000250|UniProtKB:P17809}. Note=Localizes primarily at the cell surface (PubMed:18245775, PubMed:19449892, PubMed:23219802, PubMed:24847886, PubMed:25982116). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065)

Tissue Location

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

Images



Western blot analysis of GLUT1 expression in HepG2 lysate.

Image not found : 202311/AP90399-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human cervix cancer, using GLUT1 Antibody.

Image not found : 202311/AP90399-IF.jpg

Immunofluorescent analysis of HepG2 cells, using GLUT1 Antibody .

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