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GLUT-1
Mouse Monoclonal Antibody (Mab)
Catalog # APA133

Specification

GLUT-1 - Product Information

Application	**IHC**
Primary Accession	P11166
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**54084 Da**

GLUT-1 - Additional Information

Gene ID	**6513**
Gene Name	**SLC2A1 (HGNC:11005)**

Other Names
Solute carrier family 2, facilitated glucose transporter member 1, Glucose transporter type 1, erythrocyte/brain, GLUT-1, HepG2 glucose transporter, SLC2A1 (HGNC:11005)

Storage	**Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.**
Precautions	**GLUT-1 is for research use only and not for use in diagnostic or therapeutic procedures.**

GLUT-1 - Protein Information

Name SLC2A1 (HGNC:11005)

Function

Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:18245775, PubMed:19449892, PubMed:25982116, PubMed:27078104, PubMed:10227690). 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

Cellular Location	**cone survival by increasing glucose uptake into photoreceptors (By similarity). 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:25982116, PubMed:24847886). 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**

GLUT-1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GLUT-1 - Images