



#### **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 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=11005" target="blank">HGNC:11005</a>)

**Dilution** 

IHC~~1:100~500

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**

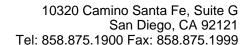
Name SLC2A1 (HGNC:11005)

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,





Cellular Location

Tissue Location

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). 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) 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
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## **GLUT-1 - Images**