

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

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**GLUT-1 - Product Information**

Application	IHC
Primary Accession	<a href="#">P11166</a>
Host	Mouse
Clonality	Monoclonal
Calculated MW	54084 Da

**GLUT-1 - Additional Information**

Gene ID	6513
Gene Name	SLC2A1 ( <a href="#">HGNC:11005</a> )

**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

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)

#### 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 Cytometry](#)
- [Cell Culture](#)

### GLUT-1 - Images