

**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>)

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: <a href="#">18245775</a> , PubMed: <a href="#">19449892</a> , PubMed: <a href="#">25982116</a> , PubMed: <a href="#">27078104</a> , PubMed: <a href="#">10227690</a> ). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (PubMed: <a href="#">18245775</a> , PubMed: <a href="#">19449892</a> ). 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: <a href="#">10227690</a> ). In association with BSG and NXNL1, promotes retinal
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**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}.

**Tissue Location**

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](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**GLUT-1 - Images**