

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)

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