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GLUT-1

Mouse Monoclonal antibody(Mab)
Catalog # AD80133

Product Information

Application	IHC-P
Primary Accession	P11166
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	466E8C2
Calculated MW	54084

Additional Information

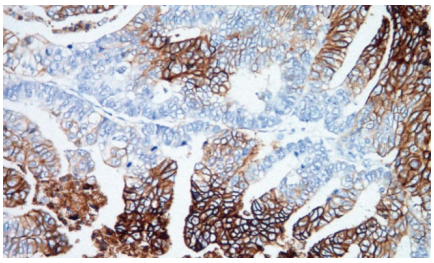
Gene ID	6513
Gene Name	SLC2A1
Other Names	Solute carrier family 2, facilitated glucose transporter member 1, Glucose transporter type 1, erythrocyte/brain, GLUT-1, HepG2 glucose transporter, SLC2A1 (HGNC:11005)
Dilution	IHC-P~~Ready-to-use
Storage	Maintain refrigerated at 2-8°C.
Precautions	GLUT-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC2A1 (HGNC:11005)
Function	Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:10227690, PubMed:10954735, PubMed:18245775, PubMed:19449892, PubMed:25982116, PubMed:27078104, PubMed:32860739). 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 cone survival by increasing glucose uptake into photoreceptors (By similarity). Required for mesendoderm differentiation (By similarity).
Cellular Location	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:24847886, PubMed:25982116). Identified by mass spectrometry in

Tissue Location	melanosome fractions from stage I to stage IV (PubMed:17081065) Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues

Images



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