

Recombinant Anti-GLUT1 Rabbit mAb

Catalog # AP94847

Product Information

Application	WB, IHC
Primary Accession	P11166
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	54084

Additional Information

Gene ID	6513
Other Names	GLUT1; Solute carrier family 2, facilitated glucose transporter member 1; Glucose transporter type 1, erythrocyte/brain; GLUT-1; HepG2 glucose transporter
Dilution	WB~~1:1000 IHC~~1:100~500
Format	The antibody was purified by immunogen affinity chromatography. liquid in PBS, pH 7.3, 50% glycerol, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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 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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.