

GLUT-1 (PTR2138) mouse mAb

Catalog No :	YM4463
Reactivity :	Human;Mouse;Rat;
Applications :	WB;IF;ELISA
Target :	SLC2A1
Gene Name :	SLC2A1 GLUT1
Protein Name :	Solute carrier family 2, facilitated glucose transporter member 1 (Glucose transporter type 1, erythrocyte/brain) (GLUT-1) (HepG2 glucose transporter)
Human Gene Id :	6513
Human Swiss Prot No :	P11166
Mouse Gene Id :	20525
Mouse Swiss Prot No :	P17809
Immunogen :	Synthesized peptide derived from human GLUT-1 AA range: 400-492
Specificity :	This antibody detects endogenous levels of GLUT-1 protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG
Dilution :	WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Purification :	Protein G
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 54kD

Observed Band : 54kD

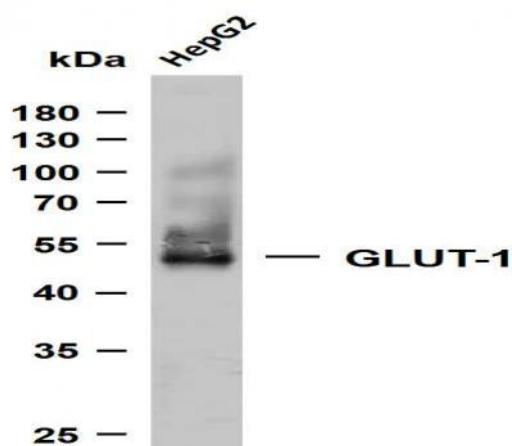
Background : solute carrier family 2 member 1(SLC2A1) Homo sapiens This gene encodes a major glucose transporter in the mammalian blood-brain barrier. The encoded protein is found primarily in the cell membrane and on the cell surface, where it can also function as a receptor for human T-cell leukemia virus (HTLV) I and II. Mutations in this gene have been found in a family with paroxysmal exertion-induced dyskinesia. [provided by RefSeq, Apr 2013],

Function : Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake . Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses . 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 . In association with BSG and NXNL1 , promotes retinal cone survival by increasing glucose uptake into photoreceptors (By similarity).

Subcellular Location : Membranous

Expression : Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues.

Products Images



Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-GLUT-1 (PTR2138) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2