GLUT1(Mono-methyl-K245) Antibody

Catalog No: #SAB618

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Description

Product Name	GLUT1(Mono-methyl-K245) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was purified from rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Applications	WB
Species Reactivity	Human
Specificity	GLUT1(Mono-methyl-K245) Antibody detects endogenous levels of GLUT1 only when mono-methylated at K245.
Immunogen Description	A synthesized peptide derived from human GLUT1 around the mono-methylated site of K245.
Other Names	Glucose transporter type 1, erythrocyte/brain,GLUT-1,HepG2 glucose transporter,GLUT1
Uniprot	P11166
GeneID	6513
SDS-PAGE MW	54kDa
Concentration	1 mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.
Storage	Store at --20°C/1 year

Application Details

Western Blot: 1/500 - 1/2000

Background

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, 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).

Note: This product is for in vitro research use only