



GLUT1

Cat.No. 419 005; Polyclonal Guinea pig antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Guinea pig serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: not recommended IP: not tested yet ICC: not tested yet IHC: 1 : 500 IHC-P/FFPE: 1 : 100
Immunogen	Synthetic peptide corresponding to AA 229 to 240 from mouse GluT1 (UniProt Id: P17809)
Reactivity	Reacts with: mouse (P17809), rat (P11167). Other species not tested yet.
Specificity	Specific for GLUT1.

Selected General References

Glucose transporter 1 and monocarboxylate transporters 1, 2, and 4 localization within the glial cells of shark blood-brain-barriers.
Balmaceda-Aguilera C, Cortés-Campos C, Cifuentes M, Peruzzo B, Mack L, Tapia JC, Oyarce K, García MA, Nualart F
PloS one (2012) 7(2): e32409.

Brain microvasculature defects and Glut1 deficiency syndrome averted by early repletion of the glucose transporter-1 protein.
Tang M, Gao G, Rueda CB, Yu H, Thibodeaux DN, Awano T, Engelstad KM, Sanchez-Quintero MJ, Yang H, Li F, Li H, et al.
Nature communications (2017) 8: 14152.

TO BE USED IN VITRO / FOR RESEARCH ONLY

NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Glucose transporter type 1 (GLUT1), also known as **SLC2A1**, is ubiquitously expressed, and is present at high levels in primate erythrocytes and brain endothelial cells. GLUT1 is a major glucose transporter in the mammalian blood-brain barrier and is also able to transport dehydroascorbic acid (oxidized vitamin C) into the brain. GLUT1 may also contribute to HTLV-associated disorders through interactions with HTLV envelope glycoproteins.