bs-0472R **[Primary Antibody]**

GLUT1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6513 **SWISS:** P11166

Target: GLUT1

Immunogen: KLH conjugated synthetic peptide derived from human GLUT1: 191-270/492.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a major glucose transporter in the mammalian blood-brain barrier. Mutations in this gene have been found in a family with paroxysmal exertion-induced dyskinesia. [provided by RefSeq, Jul 2008].

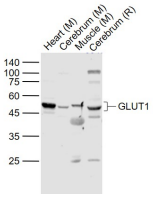
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)

Reactivity: Human, Mouse, Rat (predicted: Pig, Sheep, Cow, Chicken, Dog)

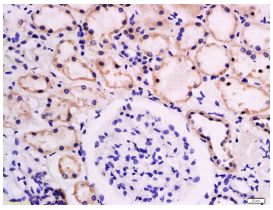
Predicted MW.: 54 kDa

Subcellular Location: Extracellular matrix ,Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Heart (Mouse) Lysate at 40 ug Lane 2: Cerebrum (Mouse) Lysate at 40 ug Lane 3: Muscle (Mouse) Lysate at 40 ug Lane 4: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-GLUT1 (bs-0472R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kD Observed band size: 52 kD



Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-GLUT1 Polyclonal Antibody, Unconjugated(bs-0472R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

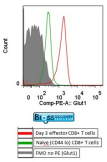


Image was kindly submitted by Dr. Lelisa Gemta from University of Virginia. Mouse splenocytes stained with Rabbit Anti-GLUT1 Polyclonal Antibody, PE conjugated (bs-0472R-PE)at 1:50.

SELECTED CITATIONS

- **[IF=9]** Cheng Aoming. et al. The enhanced energy metabolism in the tumor margin mediated by RRAD promotes the progression of oral squamous cell carcinoma. CELL DEATH DIS. 2024 May;15(5):1-14 WB ;Human. 38811531
- **[IF=6.543]** Chen Mengyuan. et al. Celastrol Protects against Cerebral Ischemia/Reperfusion Injury in Mice by Inhibiting Glycolysis through Targeting HIF-1α/PDK1 Axis. Oxid Med Cell Longev. 2022;2022:7420507 WB ;Mouse. 35035665
- **[IF=6.208]** Kexin Wang. et al. OBHS Drives Abnormal Glycometabolis Reprogramming via GLUT1 in Breast Cancer. INT J MOL SCI. 2023 Jan;24(8):7136 IHC ;Mouse. 37108300
- **[IF=6.048]** Changhao Jia. et al. Apigenin sensitizes radiotherapy of mouse subcutaneous glioma through attenuations of cell stemness and DNA damage repair by inhibiting NF-κB/HIF-1α-mediated glycolysis. J NUTR BIOCHEM. 2022 May;:109038 WB ;Human. 35533901
- **[IF=5.4]** Song Jia. et al. Mesenchymal stromal cells ameliorate mitochondrial dysfunction in α cells and

hyperglucagonemia in type 2 diabetes via SIRT1/FoxO3a signaling. STEM CELL TRANSL MED. 2024 Jun;: WB ;Human. 38864709