**bs-1207R** **[ Primary Antibody ]**

# GLUT3 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 6515 **SWISS:** P11169

**Target:** GLUT3

**Immunogen:** KLH conjugated synthetic peptide derived from human GLUT3: 151-260/493. < Cytoplasmic >

**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:** May act as a glucose transporter in neurons; may mediate increasd glucose uptake in response to neuronal injury. Glucose is fundamental to the metabolism of mammalian cells. Several glucose transporter protein (Glut) isoforms have been identified and shown to function in response to insulin and IGF1 induced signaling. GLUT3 is detectable in a few normal cell type spermatids in testis with active spermatogenesis, placental trophoblast membranes, and neurons in brain. GLUT3 staining is also detectable in human cancers including those of the ovary, lung, and testis. Alternative names: FLJ90380; Glucose Transporter Type 3; Glucose transporter type 3 brain; GLUT 3; GLUT3; SLC2A3; Solute Carrier Family 2 (Facilitated Glucose Transporter) Member 3.

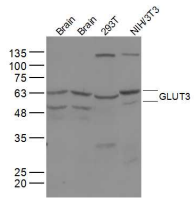
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)

**Reactivity:** Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Chicken, Dog, GuineaPig, Horse)

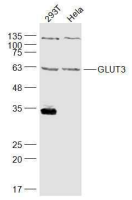
**Predicted MW.:** 54 kDa

**Subcellular Location:** Cell membrane

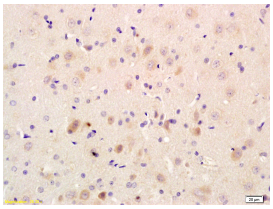
## VALIDATION IMAGES



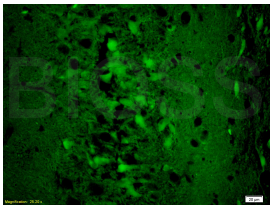

Sample: Brain (Mouse) Lysate at 40 ug Brain (Rat) Lysate at 40 ug 293T (Human) Cell Lysate at 30 ug NIH/3T3 (Mouse) CellLysate at 30 ug Primary: Anti-GLUT3 (bs-1207R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kD Observed band size: 50/63 kD



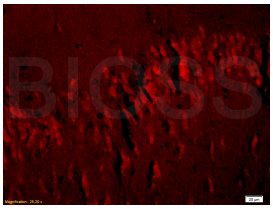

Sample: 293T(Human) Cell Lysate at 30 ug Hela(Human) Cell Lysate at 30 ug Primary: Anti-bs-1207R (bs-1207R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kD Observed band size: 63 kD



Tissue/cell: rat brain 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-Glut3 Polyclonal Antibody, Unconjugated(bs-1207R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-



Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-

embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Glut3 Polyclonal Antibody, FITC conjugated(bs-1207R-FITC) 1:100, 60 minutes at 37°C; Excitation wavelength: 488nm; Emission wavelength:519nm

embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Glut3 Polyclonal Antibody, Unconjugated(bs-1207R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.

## SELECTED CITATIONS


- **[IF=12.2]** Tao Wang. et al. Fecal microbiota transplantation derived from mild cognitive impairment individuals impairs cerebral glucose uptake and cognitive function in wild-type mice: Bacteroidetes and TXNIP-GLUT signaling pathway. GUT MICROBES. 2024 九月 12 IF ;Mouse. 39262376
- **[IF=9.7]** Ziyi Zhong. et al. Tumor-associated macrophages drive glycolysis through the IL-8/STAT3/GLUT3 signaling pathway in pancreatic cancer progression. CANCER LETT. 2024 Apr;588:216784 WB,IHC ;Human,Mouse. 38458594
- **[IF=7.5]** Ling Hao. et al. 27-Hydroxycholesterol impairs learning and memory ability via decreasing brain glucose uptake mediated by the gut microbiota. BIOMED PHARMACOTHER. 2023 Dec;168:115649 IF ;Mouse. 37806088
- **[IF=6.7]** Cui-ling Jia. et al. Rosmarinic acid Liposomes Suppress Ferroptosis in Ischemic Brain via Inhibition of TfR1 in BMECs. PHYTOMEDICINE. 2024 Jun;:155835 WB ;Mouse. 38968791
- **[IF=5.076]** Hu C et al. Placentae for Low Birth Weight Piglets Are Vulnerable to Oxidative Stress, Mitochondrial Dysfunction, and Impaired Angiogenesis. Oxid Med Cell Longev. 2020 May 25;2020:8715412. WB ;Pig. 32566107