bs-0351R **[Primary Antibody]**

GLUT2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6514 **SWISS:** P11168

Target: GLUT2

Immunogen: KLH conjugated synthetic peptide derived from human GLUT2: 431-524/524. < 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: This gene encodes an integral plasma membrane glycoprotein of the liver, islet beta cells, intestine, and kidney epithelium. The encoded protein mediates facilitated bidirectional glucose transport. Because of its low affinity for glucose, it has been suggested as a glucose sensor. Mutations in this gene are associated with susceptibility to diseases, including Fanconi-Bickel syndrome and noninsulin-dependent diabetes mellitus (NIDDM). Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]

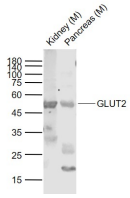
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1µg /test)

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

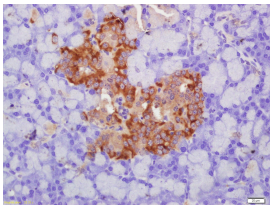
Predicted MW.: 57 kDa

Subcellular Location: Cell membrane

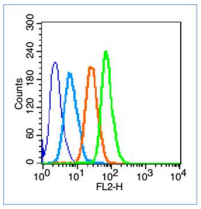
VALIDATION IMAGES



Sample: Lane 1: Kidney (Mouse) Lysate at 40 ug Lane 2: Pancreas (Mouse) Lysate at 40 ug Primary: Anti-GLUT2 (bs-0351R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50-53 kD Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded (rat pancreas tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Glut2) Polyclonal Antibody, Unconjugated (bs-0351R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control (blue line): Hep G2(blue). Primary Antibody (green line): Rabbit Anti-GLUT2 antibody (bs-0351R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 70% ethanol Overnight at 4°C. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=45.5]** Jian Zhang. et al. A two-front nutrient supply environment fuels small intestinal physiology through

differential regulation of nutrient absorption and host defense. CELL. 2024 Oct 19 IF ;Mouse. 39427662

- **[IF=11.4]** Jing Zhao. et al. Differentiation of intestinal stem cells toward goblet cells under systemic iron overload stress are associated with inhibition of Notch signaling pathway and ferroptosis. REDOX BIOL. 2024 Jun;72:103160 WB ;Mouse. 38631120
- **[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=7.9]** Yadi Liu. et al. Rutin ameliorated lipid metabolism dysfunction of diabetic NAFLD via AMPK/SREBP1 pathway. PHYTOMEDICINE. 2024 Apr;126:155437 IF ;Human. 38394735
- **[IF=8.2]** Huiqin Guo. et al. Oat β-D-glucan ameliorates type II diabetes through TLR4/PI3K/AKT mediated metabolic axis. INT J BIOL MACROMOL. 2023 Jul;:126039 WB ;Human. 37516222