bs-3988R **[Primary Antibody]**

GLUT5 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6518 **SWISS:** P22732

Target: GLUT5

Immunogen: KLH conjugated synthetic peptide derived from human GLUT5: 131-180/501. < 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: Ten types of glucose/fructose transport carrier proteins designated as Glut 1-10 facilitate glucose/fructose transport across the cell membrane. Molecular cloning of glucose transporters have identified a family of closely related genes that encodes at least 7 proteins exhibiting high degree of amino acid homology (45%-65%) all in the molecular weight range of 40-60 kDa. Individual members of the Glut family have predicted secondary structure characteristic of 12 membrane spanning domains of other transport carriers. Majority of the differences in sequence homology in Glut proteins occur at 4 hydrophilic domains that may play a role in distinct tissue-specific pattern of expression and targeting. All Glut proteins are glycosylated at or near the C-terminus and are present on either cell surface or in intracellular sites. Some transporters exhibit dynamic trafficking between intracellular storage sites and plasma membranes in response to various stimuli. In some tissues Glut proteins are asymmetrically distributed between apical and basolateral membranes as in blood brain barrier and blood testis barriers.
Glut 5 seems to function primarily as a fructose transporter; it is expressed in small intestine, and at much lower levels in kidney, skeletal muscle, and adipose

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: Rat (predicted: Human, Mouse, Rabbit, Dog)

Predicted MW.: 55 kDa

Subcellular Location: Cell membrane

SELECTED CITATIONS

- **[IF=4.974]** Wang,et al.The Transcription Factor AP4 Promotes Oncogenic Phenotypes and Cisplatin Resistance by Regulating LAPTM4B Expression.(2018) Molecular cancer research. 16:857-868. IHC ;Human. 29378908
- **[IF=3.144]** Wang,et al.Oat globulin peptides regulate antidiabetic drug targets and glucose transporters in Caco-2 cells.(2018) Journal of Functional Foods. 42:12-20. WB ;Human. 10.1016/j.jff.2017.12.061
- **[IF=2.9]** Miao Jixuan. et al. Role of fructose in renal cell carcinoma progression. Discover Oncology. 2025 Dec;16(1):1-14 IF,WB ;Mouse,Human. 40410626
- **[IF=1.974]** Changxin Tian. et al. The expression of nutrient chemosensing gate molecules in the ileum and colon is altered for goats fed on a high-grain diet. ANIM SCI J. 2022 Jan;93(1):e13754 IHC ;Goat. 35791780