SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-GLUT3 antibody

Catalog Number: SL22375R

FOR RESEARCH USE ONLY

[DATASHEET]

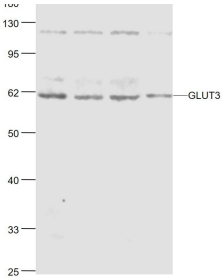
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GLUT3
Immunogen:	KLH conjugated synthetic peptide derived from mouse GLUT3 : 431-496/496 <Cytoplasmic>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, (predicted: Rat)
Predicted MW.:	54kDa
Subcellular Location:	The cell membrane
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. **Function:** Facilitative glucose transporter. Probably a neuronal glucose transporter. **Subcellular Location:** Cell membrane; Multi-pass membrane protein.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Melanosome. **Tissue Specificity:** Highly expressed in brain. Expressed in many tissues. **Similarity:** Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily. **Database links:** **Entrez Gene:** 6515 Human **Entrez Gene:** 20527 Mouse **Entrez Gene:** 25551 Rat Omim: 138170 Human **SwissProt:** P11169 Human **SwissProt:** P32037 Mouse **SwissProt:** Q07647 Rat **Unigene:** 419240 Human **Unigene:** 395108 Mouse **Unigene:** 95055 Rat Trafficking and Transport GLUT-3 is a member of the solute carrier family, and its main function is to transport glucose into epithelial cells. Currently, it is mainly used in research on Diabetes nephropathy and retinopathy, and it is also the main glucose transporter on glomerular mesangial cells. The functional status of GLUT3 directly affects glucose metabolism and functional changes in mesangial cells. Recently, researchers have also used it to differentiate some benign and malignant Tumours.

[VALIDATION IMAGES]



Sample:
HepG2(Human) Cell Lysate at 30 ug
SH-SY5Y(Human) Cell Lysate at 30 ug
NIH/3T3(Mouse) Cell Lysate at 30 ug
Raw264.7(Mouse) Cell Lysate at 30 ug
Primary: Anti-GLUT3 (SL22375R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

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Predicted band size: 54/60 kD
Observed band size: 60 kD

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