SunLong Biotech Co.,LTD
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Rabbit Anti-GLUT3 antibody

SL1207R

Product Name	GLUT3
Chinese Name	葡萄糖 Transporter3 抗体
Alias	facilitated glucose transporter member 3; Glucose Transporter GLUT3 ; FLJ90380; Glucose Transporter Type 3; Glucose transporter type 3 brain; GLUT 3; GLUT-3; GTR3_HUMAN; SLC2A3; Solute Carrier Family 2 (Facilitated Glucose Transporter) Member 3; Solute carrier family 2.
Research Area	Tumour Cell biology Signal transduction The new supersedes the old
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,GuineaPig)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	54kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GLUT3: 151-260/493 <Cytoplasmic>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed PubMed

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. Melanosome.

Tissue Specificity:
Highly expressed in brain. Expressed in many tissues.

Product Detail

Similarity:
Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily.

SWISS:
P11169

Gene ID:
6515

Database links:

Entrez Gene: 6515 Human

Entrez Gene: 20527 Mouse

Entrez Gene: 25551 Rat

Omim: 138170 Human

SwissProt: P11169 Human

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SwissProt: P32037 Mouse

SwissProt: Q07647 Rat

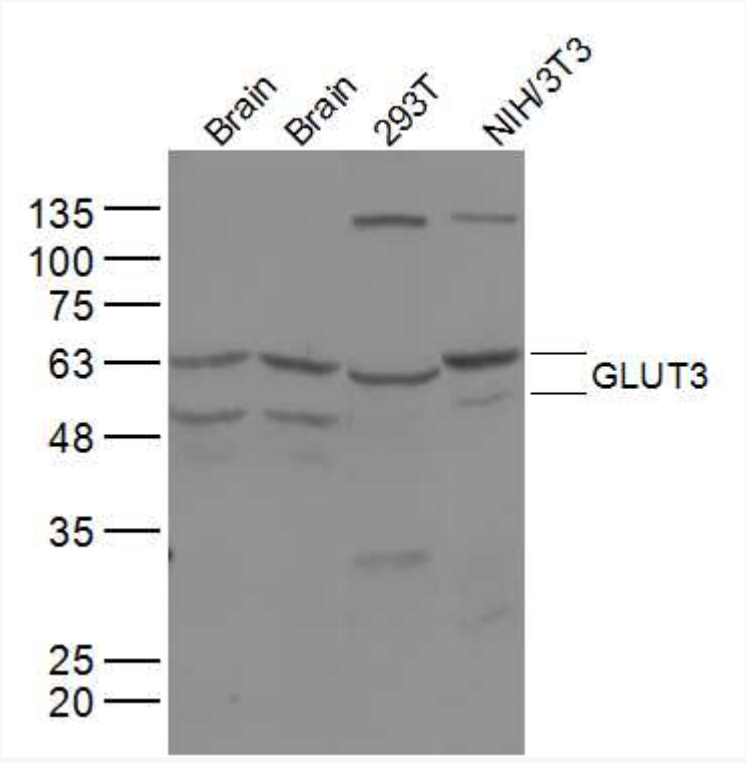
Unigene: 419240 Human

Unigene: 395108 Mouse

Unigene: 95055 Rat

交换和转运（Trafficking and Transport）
GLUT-3 属于溶质运载蛋白家族成员（solute carrier family），主要功能是转载葡萄糖进入 epithelial cells。
目前主要用于 Diabetes 肾病和视网膜病变的研究，也是肾小球系膜细胞上的主要葡萄糖转运体。GLUT3 的功能状态直接影响系膜细胞的糖代谢及功能变化。近期，研究人员也用来区别一些良、恶性 Tumour 的鉴别。

Product Picture



Sample:

Brain (Mouse) Lysate at 40 ug

Brain (Rat) Lysate at 40 ug

293T (Human) Cell Lysate at 30 ug

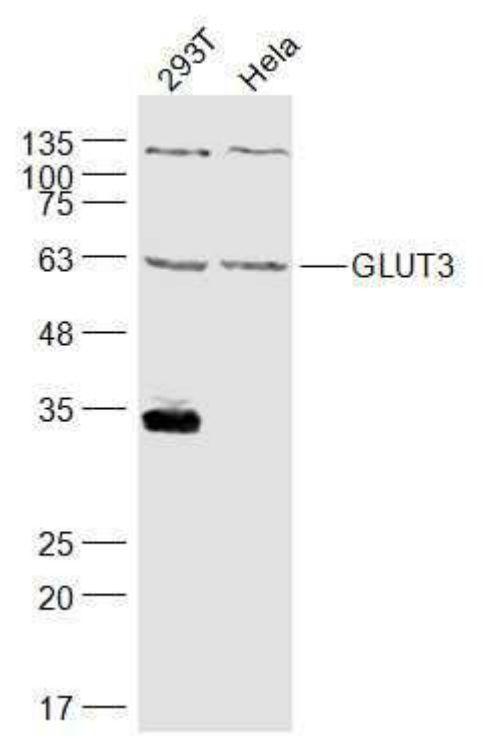
NIH/3T3 (Mouse) CellLysate at 30 ug

Primary: Anti-GLUT3 (SL1207R) 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

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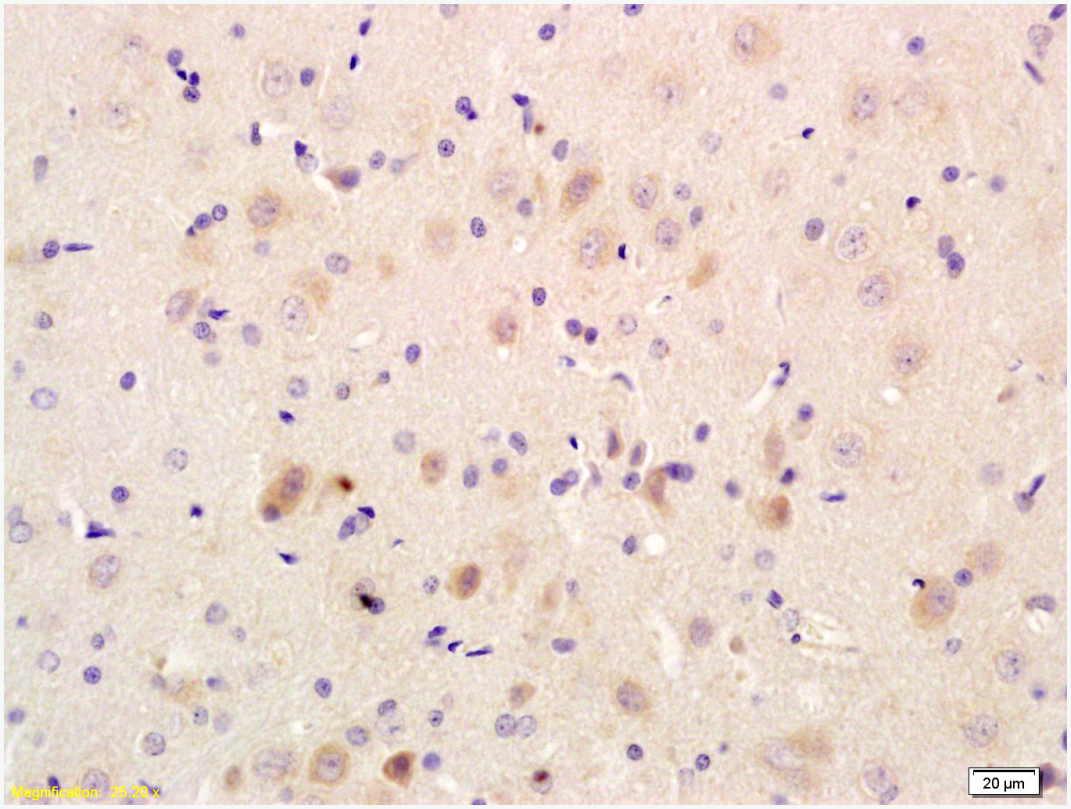
Primary: Anti-SL1207R (SL1207R) at 1/1000 dilution

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 (1M, 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℃ for 20 min;

Incubation: Anti-Glut3 Polyclonal Antibody, Unconjugated(SL1207R) 1:200,

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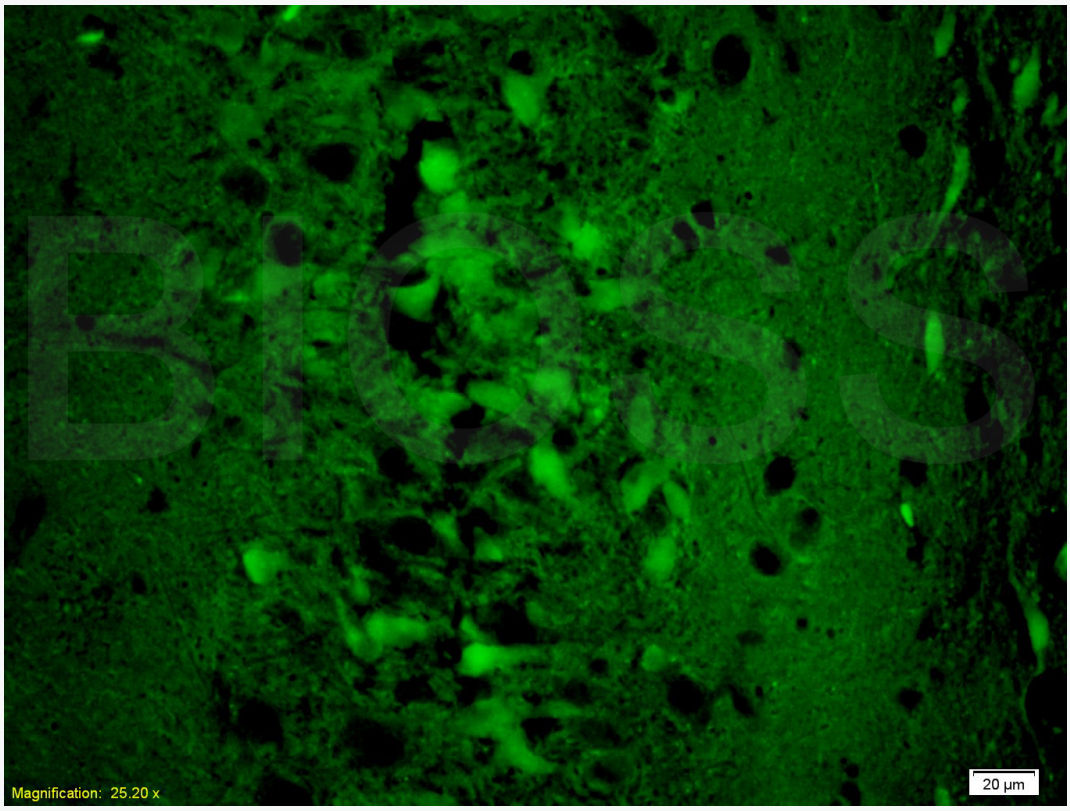
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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

Antigen retrieval: citrate buffer (1M, 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(SL1207R-FITC) 1:100, 60 minutes at 37°C;

Excitation wavelength: 488nm; Emission wavelength:519nm

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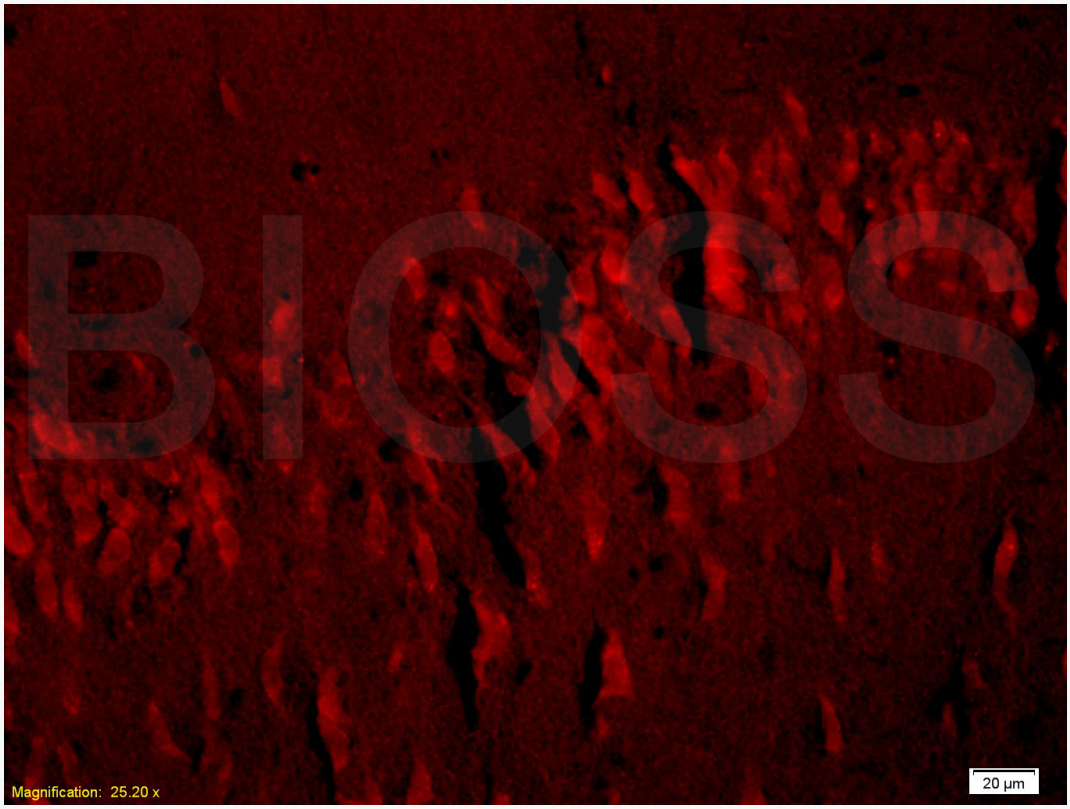

Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;

Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Glut3 Polyclonal Antibody, Unconjugated(SL1207R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.