




Rabbit Anti-GLUT3 antibody

SL1207R

Product Name:	GLUT3
Chinese Name:	葡萄糖Transporter3抗体
Alias:	brain; 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.
文献引用 	Specific References(1) SL1207R has been referenced in 1 publications. [IF=5.47]Yan, Yu-E., et al. ?Significant Reduction of the GLUT3 Level, but not GLUT1 Level, Was Observed in the Brain Tissues of Several Scrapie Experimental Animals and Scrapie-Infected Cell Lines.? Molecular neurobiology (2013): 1-14. WB; PubMed:24243341
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	54kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or 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
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>may act as a glucose transporter in neurons; may mediate increased 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.</p> <p>Function: Facilitative glucose transporter. Probably a neuronal glucose transporter.</p> <p>Subcellular Location: Cell membrane; Multi-pass membrane protein. Melanosome.</p> <p>Tissue Specificity: Highly expressed in brain. Expressed in many tissues.</p> <p>Similarity: Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily.</p> <p>SWISS: P11169</p> <p>Gene ID: 6515</p> <p>Database links:</p> <p>Entrez Gene: 6515 Human</p> <p>Entrez Gene: 20527 Mouse</p> <p>Entrez Gene: 25551 Rat</p> <p>Omim: 138170 Human</p> <p>SwissProt: P11169 Human</p>

[SwissProt: P32037](#) Mouse

[SwissProt: Q07647](#) Rat

[Unigene: 419240](#) Human

[Unigene: 395108](#) Mouse

[Unigene: 95055](#) Rat

Important Note:

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

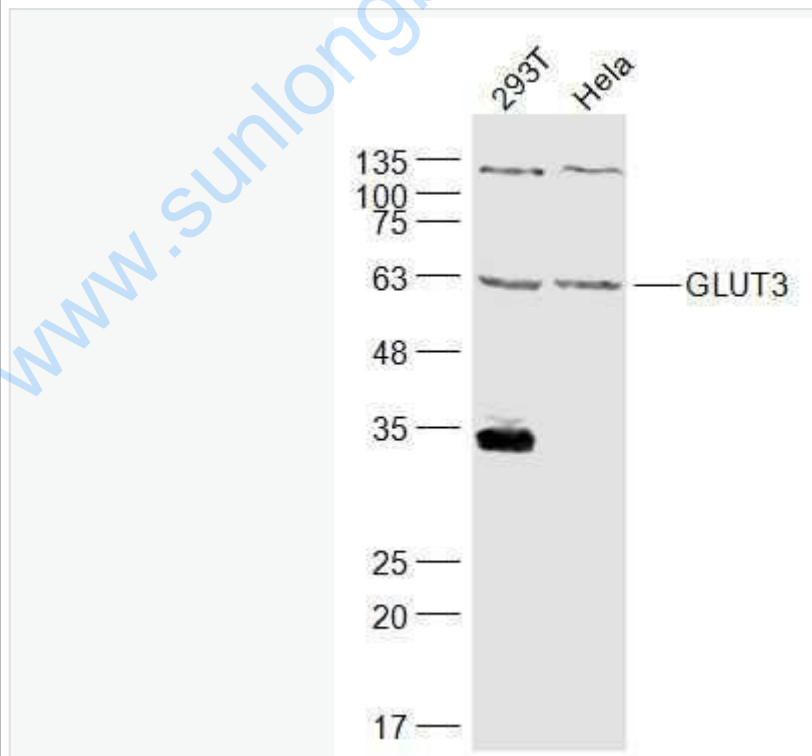
交换和转运 (Trafficking and Transport)

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。

Picture:



Sample:

293T(Human) Cell Lysate at 30 ug

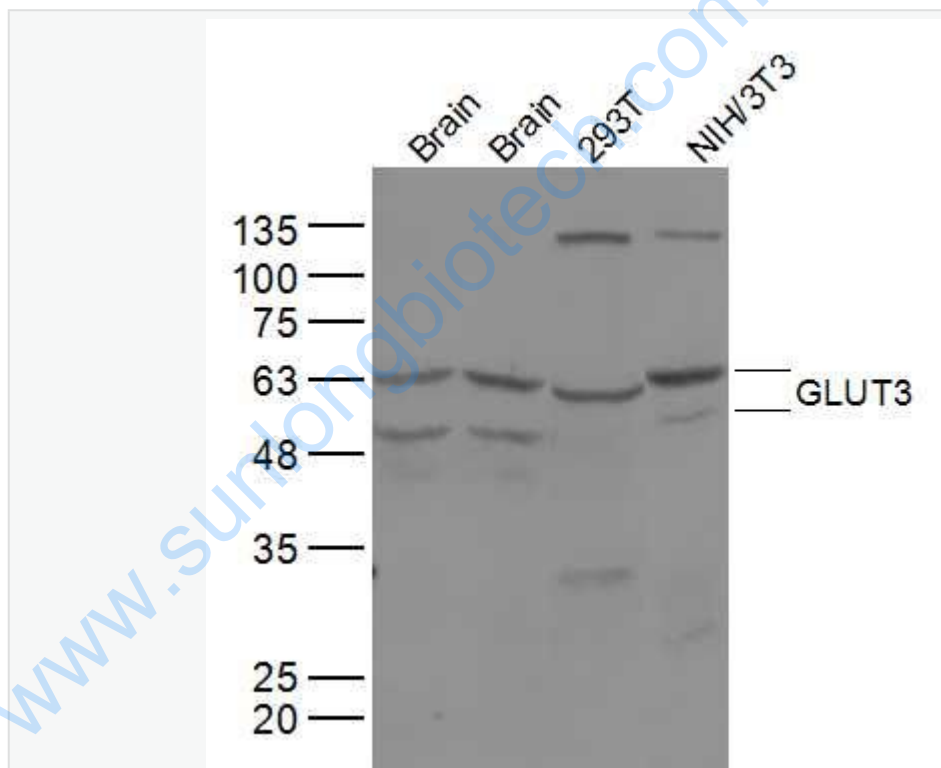
Hela(Human) Cell Lysate at 30 ug

Primary: Anti-bs-1207R? (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



Sample:

Brain (Mouse) Lysate at 40 ug

Brain (Rat) Lysate at 40 ug

293T (Human) Cell Lysate at 30 ug

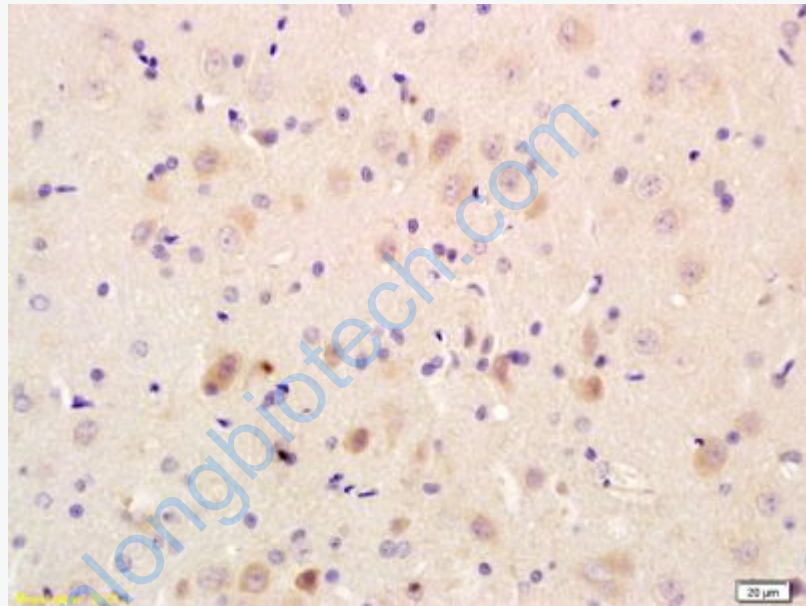
NIH/3T3 (Mouse) CellLysate at 30 ug

Primary: Anti-GLUT3 (SL1207R) at 1/300 dilution

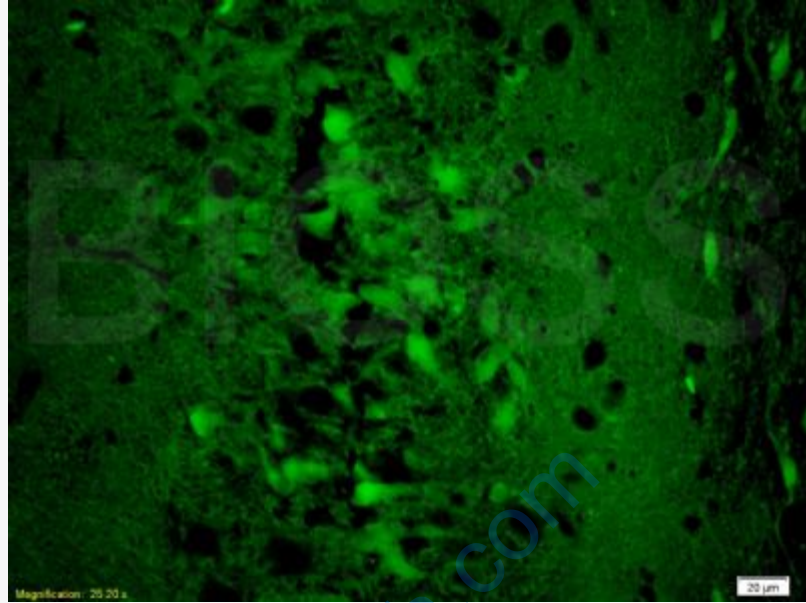
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 54 kD

Observed band size: 50/63 kD



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(SL1207R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



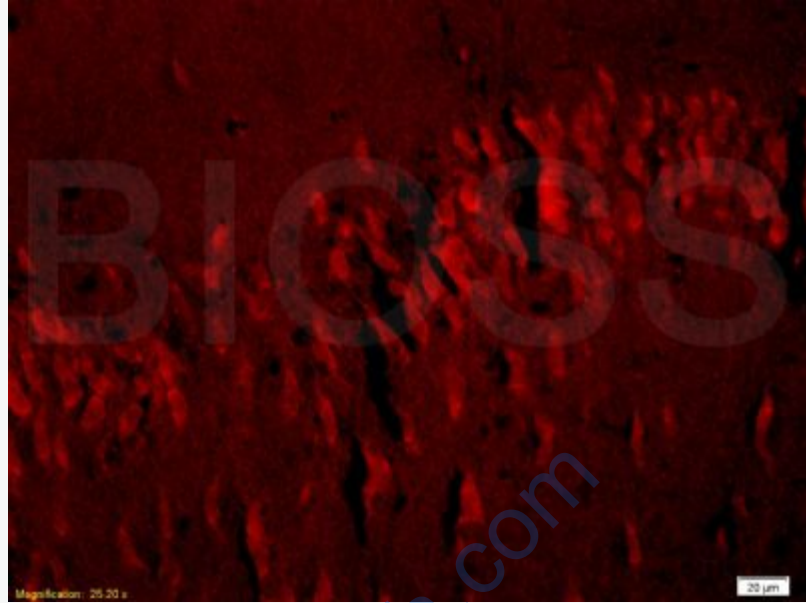
Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

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(SL1207R) 1:100, 60 minutes at 37°C;

Excitation wavelength: 488nm; Emission wavelength:519nm



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