

GLUT6/GLUT9 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55157**Specification**

GLUT6/GLUT9 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	O9UGQ3
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GLUT6
Epitope Specificity	201-300/507
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane. The dileucine internalization motif is critical for intracellular sequestration.
SIMILARITY	Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

The oxidation of glucose functions as the dominant source of metabolic energy for mammals. The plasma membrane is impermeable to glucose, so the cellular uptake of this important nutrient is achieved by facultative hexose transporters (Gluts). Gluts are integral membrane proteins that transport glucose and related hexoses. Glucose binds to a Glut on one side of the membrane which provokes a conformational change causing it to release glucose to the other side. Members of the Glut family may enhance the metabolic activity of tumor cells. Glut6 is part of the third out of three classes of Gluts. Glut6 is mainly expressed in the brain, spleen and peripheral leukocytes. It appears to be regulated by subcellular redistribution, because it is targeted to intracellular compartments by di-leucine motifs, recycling itself in a Dynamin-dependent manner.

GLUT6/GLUT9 Polyclonal Antibody - Additional Information**Gene ID** 11182**Other Names**

Solute carrier family 2, facilitated glucose transporter member 6, Glucose transporter type 6, GLUT-6, SLC2A6 (<a

href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=11011"
target="_blank">HGNC:11011)

Target/Specificity

Highly expressed in brain, spleen and peripheral blood leukocytes.

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

GLUT6/GLUT9 Polyclonal Antibody - Protein Information

Name SLC2A6 ([HGNC:11011](#))

Function

Probable sugar transporter that acts as a regulator of glycolysis in macrophages (Probable). Does not transport glucose (PubMed:30431159).

Cellular Location

Lysosome membrane; Multi-pass membrane protein

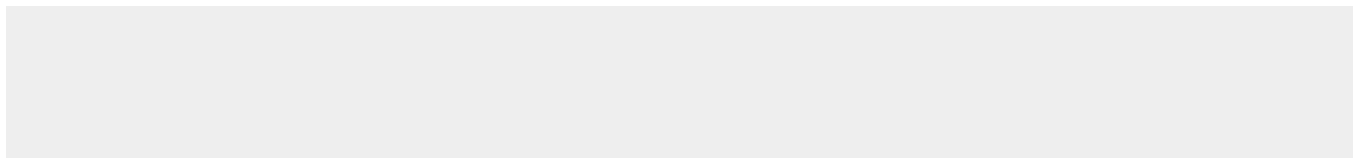
Tissue Location

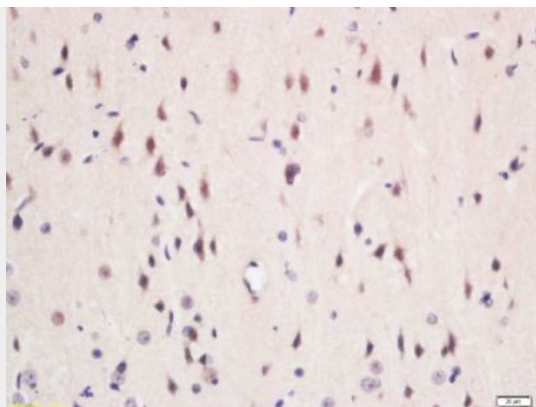
Highly expressed in brain, spleen and peripheral blood leukocytes.

GLUT6/GLUT9 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

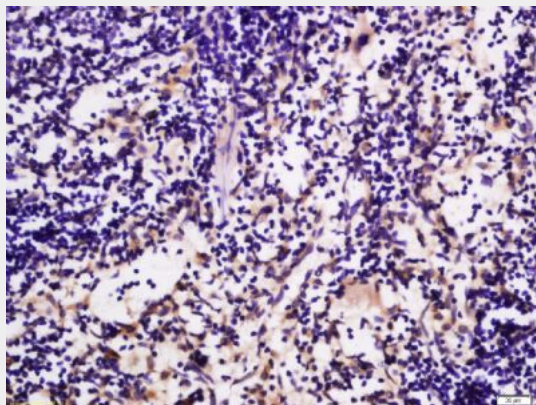
GLUT6/GLUT9 Polyclonal Antibody - Images



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;

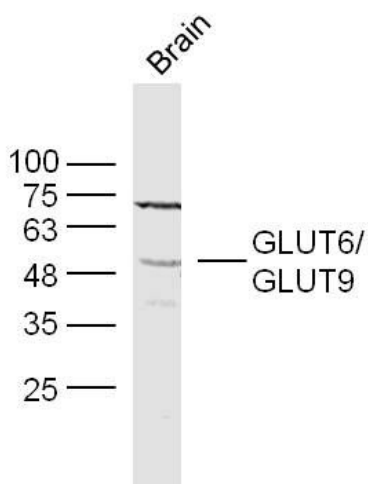
Incubation: Anti-GLUT6 Polyclonal Antibody, Unconjugated(bs-13388R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat spleen 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-GLUT6 Polyclonal Antibody, Unconjugated(bs-13388R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Sample:

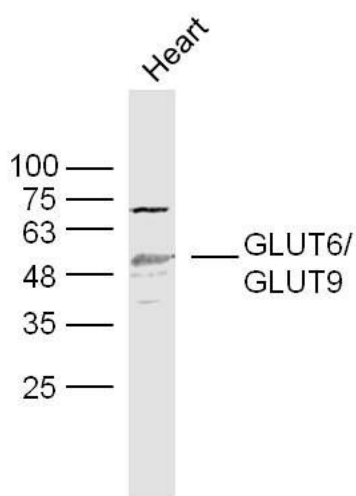
Brain (Mouse) Lysate at 40 ug

Primary: Anti- GLUT6'GLUT9 (bs-13388R) at 1/300 dilution

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

Predicted band size: 55kD

Observed band size: 55kD



Sample:

Heart (Mouse) Lysate at 40 ug

Primary: Anti- GLUT6'GLUT9 (bs-13388R) at 1/300 dilution

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

Predicted band size: 55kD

Observed band size: 55kD