

Anti-Glucose Transporter 8 Antibody
Catalog # ABO11477**Specification**

Anti-Glucose Transporter 8 Antibody - Product Information

Application	WB, IHC
Primary Accession	Q9JIF3
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Solute carrier family 2, facilitated glucose transporter member 8 (SLC2A8) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Glucose Transporter 8 Antibody - Additional Information

Gene ID 56017

Other Names

Solute carrier family 2, facilitated glucose transporter member 8, Glucose transporter type 8, GLUT-8, Glucose transporter type X1, Slc2a8, Glut8, GlutX1

Calculated MW

51508 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Cell membrane ; Multi-pass membrane protein . Cytoplasmic vesicle membrane ; Multi-pass membrane protein . Principally intracellular. May move between intracellular vesicles and the plasma membrane. The dileucine internalization motif is critical for intracellular sequestration (By similarity). Insulin induces a change in the intracellular localization and gives rise to insertion in the plasma membrane. .

Tissue Specificity

Highest level of expression in placenta and testis. Highly expressed in adult and pubertal testis, but not prepubertal testis. Lower levels of expression in brain, liver, heart, kidney, fat and skeletal muscle.

Protein Name

Solute carrier family 2, facilitated glucose transporter member 8

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of mouse Glucose Transporter 8(461-477aa ETKGRTLEQVTAHFEGR), different from the related rat sequence by one amino acid, and from the related human sequence by two amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Glucose Transporter 8 Antibody - Protein Information

Name Slc2a8 {ECO:0000312|MGI:MGI:1860103}

Function

Insulin-regulated facilitative hexose transporter that mediates the transport of glucose and fructose (PubMed:10821868, PubMed:10860996, PubMed:23396969). Facilitates hepatic influx of dietary trehalose, which in turn inhibits glucose and fructose influx triggering a starvation signal and hepatic autophagy through activation of AMPK and ULK1 (PubMed:27922102). Also able to mediate the transport of dehydroascorbate (PubMed:23396969).

Cellular Location

Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:Q9JJZ1}; Multi-pass membrane protein. Note=Principally intracellular. May move between intracellular vesicles and the plasma membrane. The dileucine internalization motif is critical for intracellular sequestration {ECO:0000250|UniProtKB:Q9JJZ1}

Tissue Location

Highest level of expression in placenta and testis. Highly expressed in adult and pubertal testis, but not prepubertal testis. Lower levels of expression in brain, liver, heart, kidney, fat and skeletal muscle.

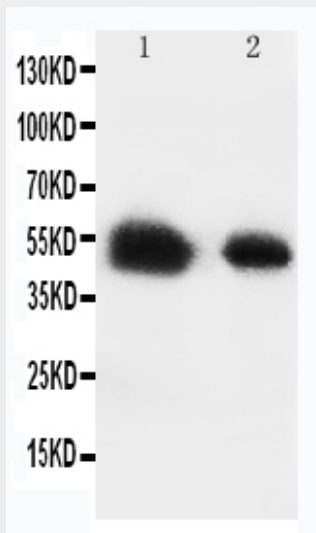
Anti-Glucose Transporter 8 Antibody - Protocols

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

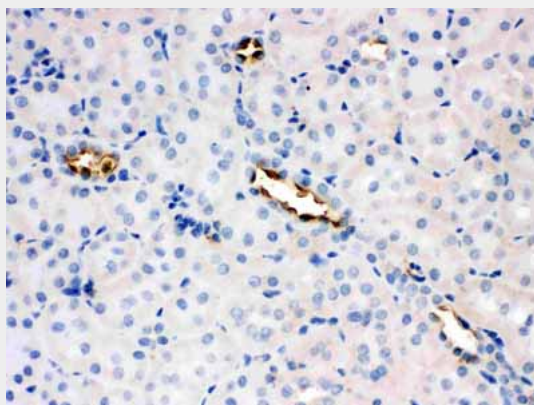
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

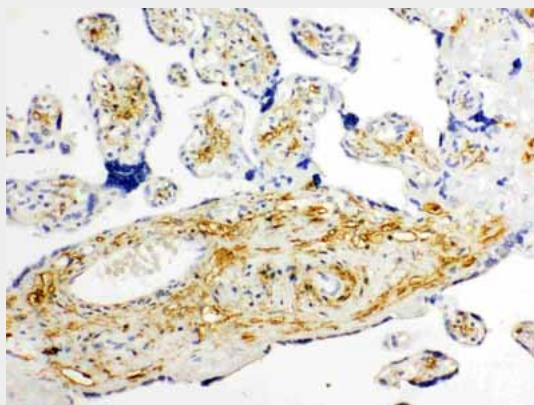
Anti-Glucose Transporter 8 Antibody - Images



Anti-Glucose Transporter 8 antibody, ABO11477, Western blotting
Lane 1: Rat Testis Tissue Lysate
Lane 2: Human Placenta Tissue Lysate



Anti-Glucose Transporter 8 antibody, ABO11477, IHC(P)
IHC(P): Rat Kidney Tissue



Anti-Glucose Transporter 8 antibody, ABO11477, IHC(P)
IHC(P): Human Placenta Tissue

Anti-Glucose Transporter 8 Antibody - Background

Solute carrier family 2, facilitated glucose transporter member 8, also known as SLC2A8, is the eighth member of glucose transporter superfamily. It is characterized by the presence of two leucine residues in its N-terminal intracellular domain, which influences intracellular trafficking. This gene is mapped to 9q33.3. Based on sequence comparison, the glucose transporters are grouped into three classes and this gene is a member of class II. It may act as the insulin-regulated facilitative glucose transporter. This gene binds cytochalasin B in a glucose-inhibitable manner. The binds seems to be a dual-specific sugar transporter as it is inhibitable by fructose.