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Anti-Glucose Transporter 8 Antibody

Catalog # ABO11477

Product Information

Application	WB, IHC-P
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 □g/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.
Source	Eukaryota
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 r˚Constitution, 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.

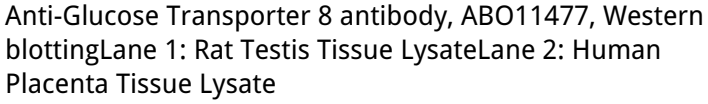
Protein Information

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.

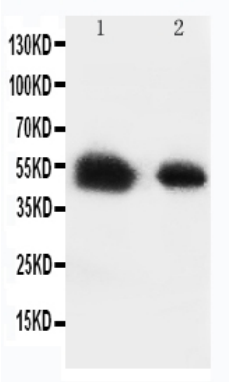
Background

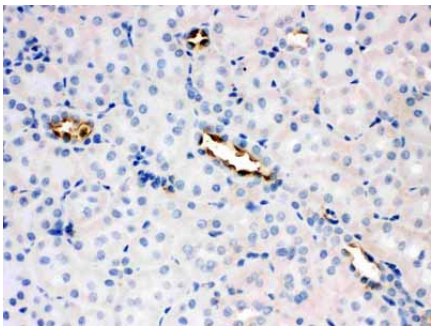
Solute carrier family 2, facilitated glucose transporter member 8, also known as SLC2A8, is the eighth member of glucose transporter superfamily. It is characterized by the presence of two leucine residues in its N-terminal intracellular domain, which influences intracellular trafficking. This gene is 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.

Images

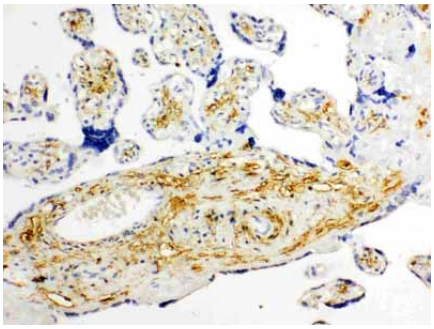


Anti-Glucose Transporter 8 antibody, ABO11477, Western blottingLane 1: Rat Testis Tissue LysateLane 2: Human Placenta Tissue Lysate





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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.