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SLC2A8 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22138c

Specification

SLC2A8 Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9NY64
Other Accession	P58354
Reactivity	**Human, Mouse, Rat**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**50819**

SLC2A8 Antibody (Center) - Additional Information

Gene ID 29988

Other Names
Solute carrier family 2, facilitated glucose transporter member 8, Glucose transporter type 8, GLUT-8, Glucose transporter type X1, SLC2A8, GLUT8, GLUTX1

Target/Specificity
This SLC2A8 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 260-292 amino acids from the Central region of human SLC2A8.

Dilution
WB~~1:2000
IHC-P~~1:25
FC~~1:25

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SLC2A8 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC2A8 Antibody (Center) - Protein Information

Name SLC2A8 (HGNC:13812)

Function Insulin-regulated facilitative hexose transporter that mediates the transport of glucose and fructose (By similarity). 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.

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q9JJZ1}; 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}

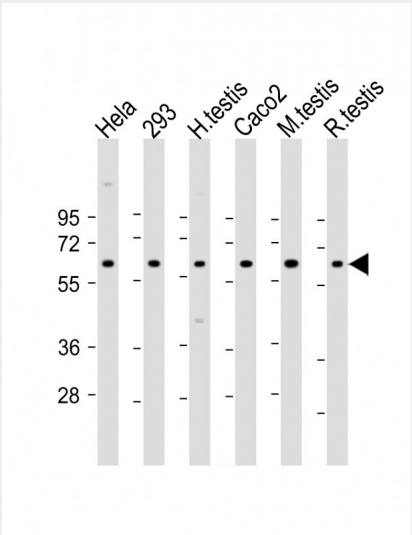
Tissue Location
Highly expressed in testis, but not in testicular carcinoma. Lower amounts present in most other tissues

SLC2A8 Antibody (Center) - Protocols

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

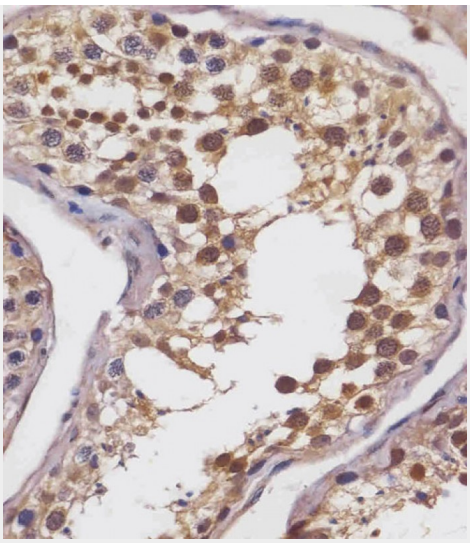
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC2A8 Antibody (Center) - Images

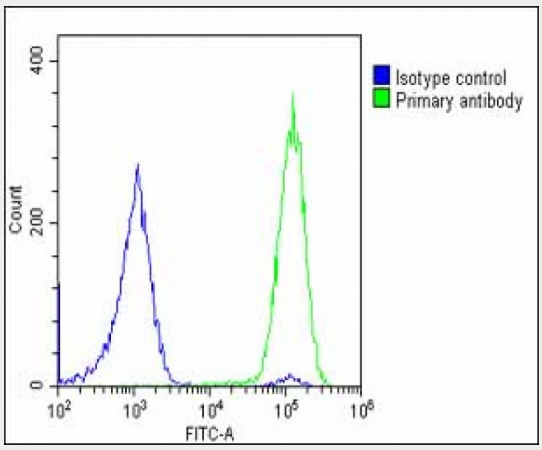


All lanes : Anti-SLC2A8 Antibody (Center) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: 293 whole cell lysate Lane 3: human testis lysate Lane 4: Caco2 whole cell lysate Lane 5: mouse testis lysate Lane 6: rat testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 51 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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AP22138c staining SLC2A8 in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing U-2 OS cells stained with AP22138c(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22138c, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

SLC2A8 Antibody (Center) - Background

Insulin-regulated facilitative glucose transporter. Binds cytochalasin B in a glucose-inhibitable manner. Seems to be a dual-specific sugar transporter as it is inhibitable by fructose (By similarity).

SLC2A8 Antibody (Center) - References

Doege H.,et al.J. Biol. Chem. 275:16275-16280(2000).
Ibberson M.R.,et al.J. Biol. Chem. 275:4607-4612(2000).
Humphray S.J.,et al.Nature 429:369-374(2004).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).