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GLUT2 (SLC2A2) Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1489a

Specification

GLUT2 (SLC2A2) Antibody (N-term) - Product Information

Application	**WB, FC,E**
Primary Accession	P11168
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**31-60**

GLUT2 (SLC2A2) Antibody (N-term) - Additional Information

Gene ID 6514

Other Names
Solute carrier family 2, facilitated glucose transporter member 2, Glucose transporter type 2, liver, GLUT-2, SLC2A2, GLUT2

Target/Specificity
This GLUT2 (SLC2A2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 31-60 amino acids from the N-terminal region of human GLUT2 (SLC2A2).

Dilution
WB~~1:1000
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
GLUT2 (SLC2A2) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GLUT2 (SLC2A2) Antibody (N-term) - Protein Information

Name SLC2A2 (HGNC:11006)

Function Facilitative hexose transporter that mediates the transport of glucose, fructose and

galactose (PubMed:16186102, PubMed:23396969, PubMed:28083649, PubMed:8027028, PubMed:8457197). Likely mediates the bidirectional transfer of glucose across the plasma membrane of hepatocytes and is responsible for uptake of glucose by the beta cells; may comprise part of the glucose-sensing mechanism of the beta cell (PubMed:8027028). May also participate with the Na(+)/glucose cotransporter in the transcellular transport of glucose in the small intestine and kidney (PubMed:3399500). Also able to mediate the transport of dehydroascorbate (PubMed:23396969).

Cellular Location
Cell membrane; Multi-pass membrane protein

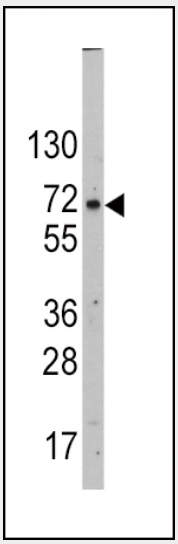
Tissue Location
Liver, insulin-producing beta cell, small intestine and kidney.

GLUT2 (SLC2A2) Antibody (N-term) - 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

GLUT2 (SLC2A2) Antibody (N-term) - Images



Western blot analysis of SLC2A2 Antibody (N-term) (Cat.#AP1489a) in HepG2 cell line lysates (35ug/lane). SLC2A2 (arrow) was detected using the purified Pab.

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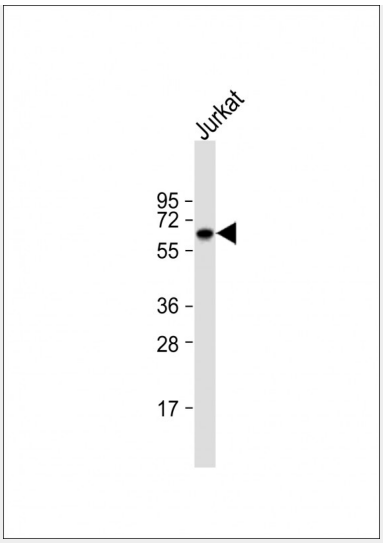
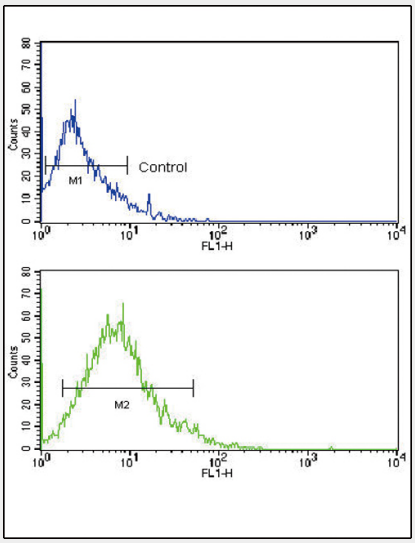


Anti-SLC2A2 Antibody (N-term) at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 57 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Flow cytometric analysis of HL-60 cells using GLUT2 (SLC2A2) Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GLUT2 (SLC2A2) Antibody (N-term) - Background

Glucose transporter 2 isoform is an integral plasma membrane glycoprotein of the liver, islet beta cells, intestine, and kidney epithelium. It mediates facilitated bidirectional glucose transport. Because of its low affinity for glucose, it has been suggested as a glucose sensor.

GLUT2 (SLC2A2) Antibody (N-term) - References

Freitas,H.S., Nephron Physiol 105 (3), P42-P51 (2007) Laukkanen,O., Diabetes 54 (7), 2256-2260 (2005) Roncero,I., J. Neurochem. 88 (5), 1203-1210 (2004)

GLUT2 (SLC2A2) Antibody (N-term) - Citations

- Effects of dietary glucose and sodium chloride on intestinal glucose absorption of common carp (Cyprinus carpio L.).

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