Product Datasheet

Glut1 Antibody (SA0377)
NBP3-32385

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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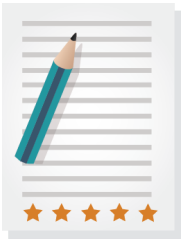


NBP3-32385

Glut1 Antibody (SA0377)

Product Information

Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SA0377
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	1*TBS (pH7.4), 0.05% BSA and 40% Glycerol
Target Molecular Weight	54 kDa

Product Description

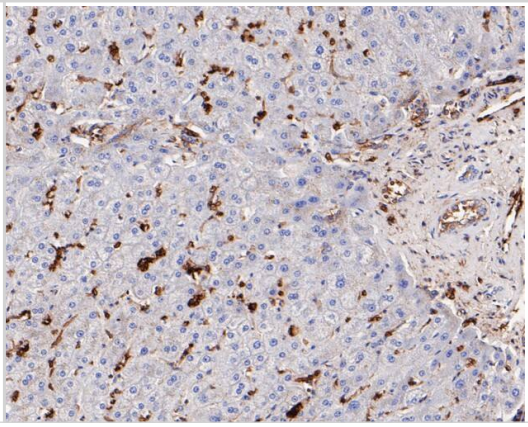
Host	Rabbit
Gene ID	6513
Gene Symbol	SLC2A1
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within Human GLUT1 aa 443-492 / 492. (Uniprot: P11166)

Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:5000-1:50000, Flow Cytometry 1:500-1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:500-1:200, Immunohistochemistry-Paraffin 1:50-1:200

Images

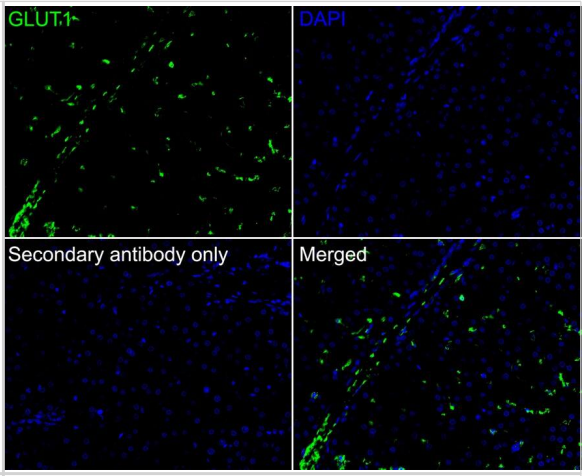
Immunohistochemistry: Glut1 Antibody (SA0377) [NBP3-32385] - Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Glut1 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes.The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (NBP3-32385, 1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemistry: Glut1 Antibody (SA0377) [NBP3-32385] - Immunofluorescence analysis of paraffin-embedded human liver tissue labeling Glut1 with Rabbit anti-Glut1 antibody (NBP3-32385) at 1/100 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (NBP3-32385, green) at 1/100 dilution overnight at 4 □, washed with PBS.

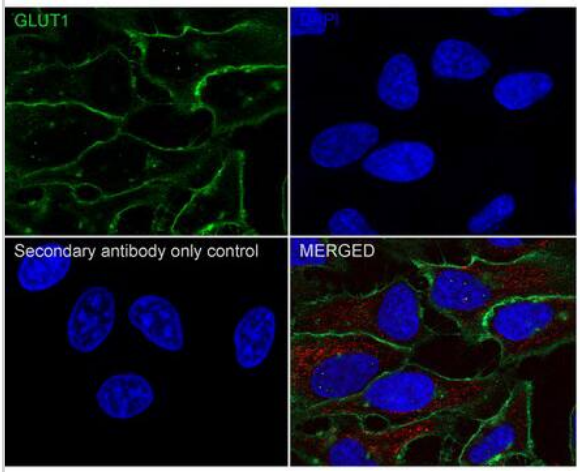
Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).



Immunocytochemistry/ Immunofluorescence: Glut1 Antibody (SA0377) [NBP3-32385] - Immunocytochemistry analysis of HeLa cells labeling Glut1 with Rabbit anti-Glut1 antibody (NBP3-32385) at 1/500 dilution.

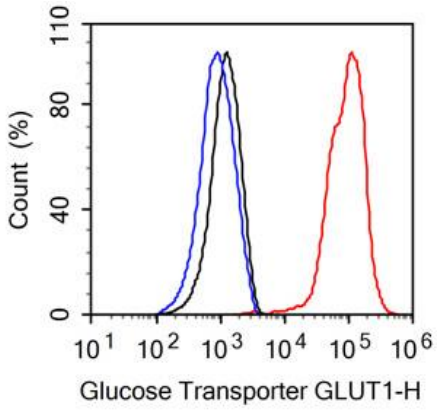
Cells were fixed in 100% precooled methanol for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Glucose Transporter GLUT1 antibody at 1/500 dilution in 1% BSA in PBST overnight at 4 □. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (red) was stained at 1/100 dilution overnight at +4□. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.



Flow Cytometry: Glut1 Antibody (SA0377) [NBP3-32385] - Flow cytometric analysis of Jurkat cells labeling Glut1.

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-32385, red) at 1/1,000 dilution, compared with Rabbit IgG Isotype Control (blue). After incubation of the primary antibody at +4□ for an hour, the cells were stained with an iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4□. Unlabeled sample was used as a control (cells without incubation with primary antibody; black).



Western Blot: Glut1 Antibody (SA0377) [NBP3-32385] - Western blot analysis of Glut1 on different lysates with Rabbit anti-Glut1 antibody (NBP3-32385) at 1/50,000 dilution.
Lane 1: HeLa cell lysate (no heat)
Lane 2: HT-29 cell lysate (no heat)
Lane 3: HepG2 cell lysate (no heat)
Lane 4: NIH/3T3 cell lysate (no heat)
Lane 5: L-929 cell lysate (no heat)
Lane 6: Mouse brain tissue lysate (no heat)
Lane 7: Rat brain tissue lysate (no heat)

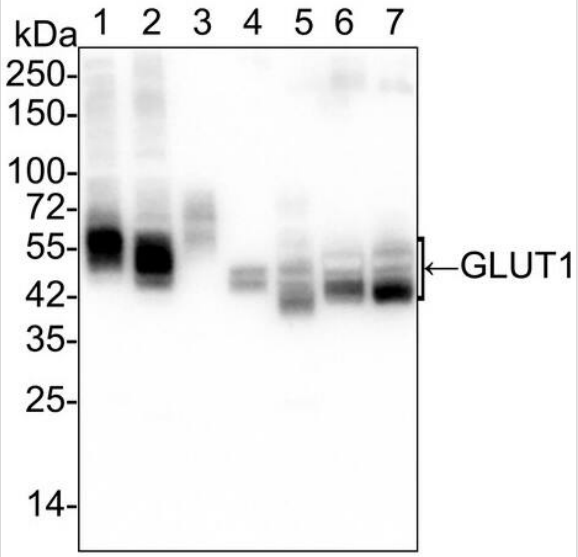
Lysates/proteins at 20 µg/Lane.

Predicted band size: 54 kDa
Observed band size: 45-60 kDa

Exposure time:
Lane 1-7 (left): 20 seconds;
Lane 1-7 (right): 1 minute 30 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/50,000 dilution was used in 5% NFDM/TBST at 4□ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:50,000 dilution was used for 1 hour at room temperature.



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Products Related to NBP3-32385

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB110-39113PEP	Glut1 Antibody Blocking Peptide

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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