



Catalog: OM626532

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Glucose Transporter GLUT1 [SA0377]

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☐ 100 µl

Product profile

Product name	Glucose Transporter GLUT1 [SA0377]
Antibody Type	Primary Antibodies
Product description	Glucose is fundamental to the metabolism of mammalian cells. Its passage across cell membranes is mediated by a family of transporters termed glucose transporters or Gluts. In adipose and muscle tissue, insulin stimulates a rapid and dramatic increase in glucose uptake, which is largely due to the redistribution of the insulin-inducible glucose transporter, Glut4. In response to insulin, Glut4 is quickly shuttled from an intracellular storage site to the plasma membrane, where it binds glucose. In contrast, the ubiquitously expressed glucose transporter Glut1 is constitutively targeted to the plasma membrane, and shows a much less dramatic translocation in response to insulin. Glut1 and Glut4 are twelve-pass transmembrane proteins (12TM) whose carboxy-termini may dictate their cellular localization. Aberrant Glut4 expression has been suggested to contribute to such maladies as obesity and diabetes. Glut4 null mice have shown that while functional Glut4 protein is not required for maintaining normal glucose levels, it is necessary for sustained growth, normal cellular glucose, fat metabolism and prolonged longevity.
Immunogen	recombinant protein

Key Feature

Clonality	Monoclonal
Isotype	IgG
Host Species	Recombinant rabbit
Tested Applications	WB ,ICC/IF ,IHC ,FC
Species Reactivity	Human Mouse Rat
Concentration	1 mg/mL.

Target Information

Alternative Names	Choreoathetosis/spasticity episodic (paroxysmal choreoathetosis/spasticity) antibody CSE antibody DYT17 antibody DYT18 antibody DYT9 antibody EIG12 antibody erythrocyte/brain antibody Erythrocyte/hepatoma glucose transporter antibody facilitated glucose transporter member 1 antibody Glucose transport
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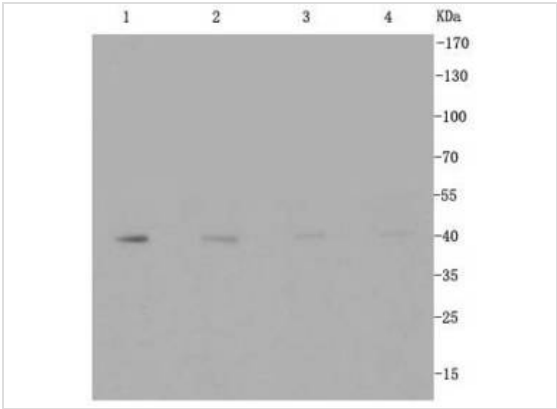
er 1 antibody
Glucose transporter type 1 antibody
Glucose transporter type 1, erythrocyte/brain antibody
GLUT antibody
GLUT-1 antibody
GLUT1 antibody
GLUT1DS antibody
GLUTB antibody
GT1 antibody
GTG1 antibody
Gtg3 antibody
GTR1_HUMAN antibody
HepG2 glucose transporter antibody
HTLVR antibody
Human T cell leukemia virus (I and II) receptor antibody
MGC141895 antibody
MGC141896 antibody
PED antibody
RATGTG1 antibody
Receptor for HTLV 1 and HTLV 2 antibody
SLC2A1 antibody
Solute carrier family 2 (facilitated glucose transporter), member 1 antibody
Solute carrier family 2 antibody
Solute carrier family 2, facilitated glucose transporter member 1 antibody

Molecular Weight(MW)	54 kDa
Cellular Localization	Cell membrane, Melanosome

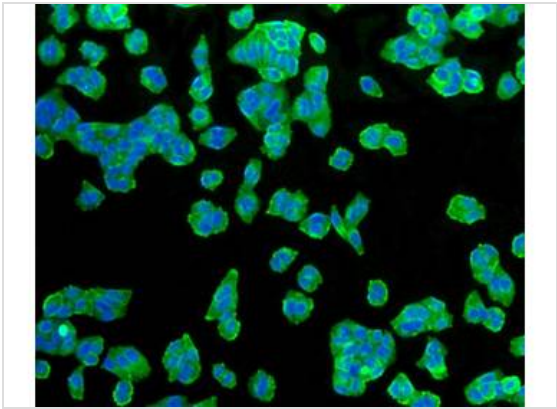
Database Links

SwissProt ID	P11166
	P17809
	P11167

Application

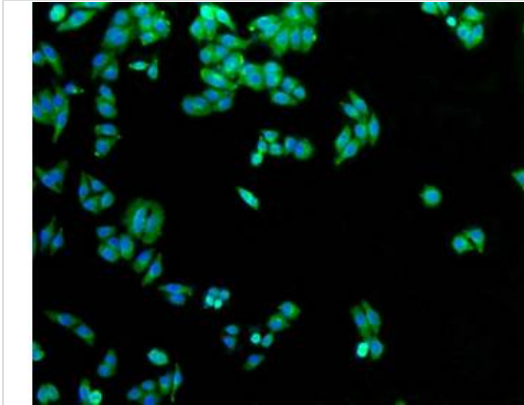
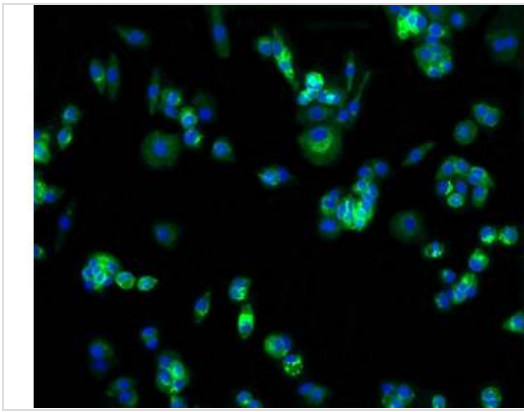


Application
Fig1: Western blot analysis of GLUT1 on different cell lysates using anti-GLUT1 antibody at 1/1000 dilution. Positive control: Lane 1: Hela Lane 2: MCF-7 Lane 3: Jurkat Lane 4: NIH/3T3



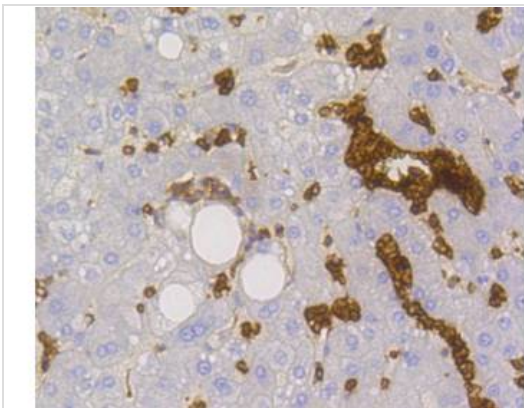
Application
Fig2: ICC staining GLUT1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Application
Fig3: ICC staining GLUT1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



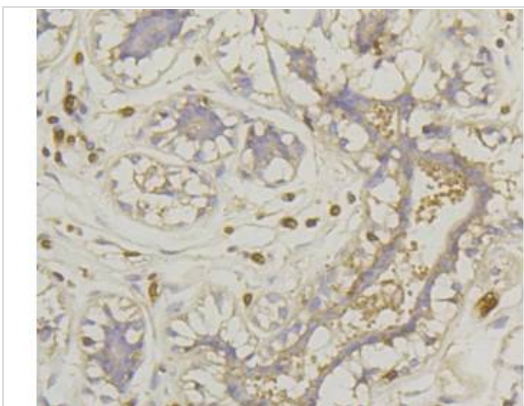
Application

Fig4: ICC staining GLUT 1 in HepG2 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



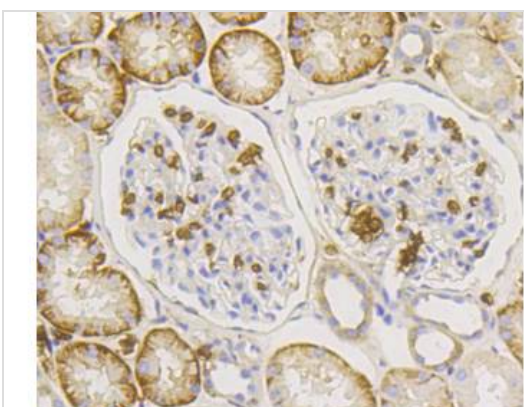
Application

Fig5: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-GLUT1 antibody. Counter stained with hematoxylin.



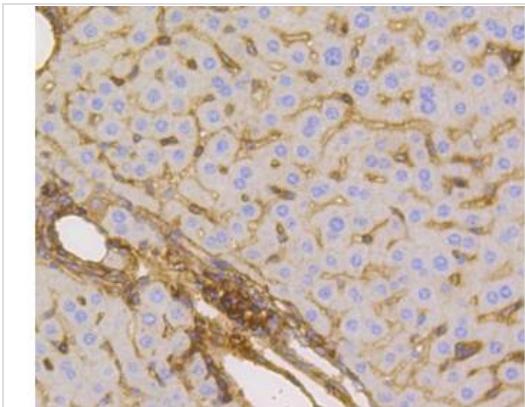
Application

Fig6: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-GLUT1 antibody. Counter stained with hematoxylin.



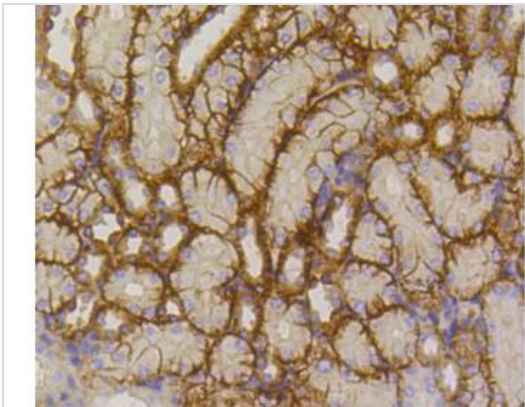
Application

Fig7: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-GLUT1 antibody. Counter stained with hematoxylin.



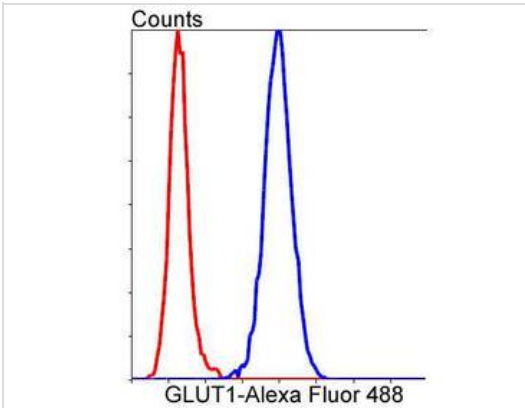
Application

Fig8: Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-GLUT 1 antibody. Counter stained with hematoxylin.



Application

Fig9: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-GLUT 1 antibody. Counter stained with hematoxylin.



Application

Fig10: Flow cytometric analysis of HeLa cells with GLUT1 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Positive Control	Jurkat, MCF-7, HeLa, HepG2, NIH/3T3, mouse liver tissue, human liver tissue, human breast carcinoma tissue, human kidney tissue.
Application Notes	WB: 1:500-1:1,000 ICC: 1:50-1:200 IHC: 1:50-1:200 FC: 1:10-1:100

Additional Information

Form	Liquid
Storage Instructions	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage Buffer	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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