

Glut6 (K-16): sc-48170

BACKGROUND

The oxidation of glucose functions as the dominant source of metabolic energy for mammals. The plasma membrane is impermeable to glucose, so the cellular uptake of this important nutrient is achieved by facultative hexose transporters (Gluts). Gluts are integral membrane proteins that transport glucose and related hexoses. Glucose binds to a Glut on one side of the membrane which provokes a conformational change causing it to release glucose to the other side. Members of the Glut family may enhance the metabolic activity of tumor cells. Glut6 is part of the third out of three classes of Gluts. Glut6 is mainly expressed in the brain, spleen and peripheral leukocytes. It appears to be regulated by subcellular redistribution, because it is targeted to intracellular compartments by di-leucine motifs, recycling itself in a Dynamin-dependent manner.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SLC2A6 (human) mapping to 9q34.2.

SOURCE

Glut6 (K-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Glut6 of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-48170 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

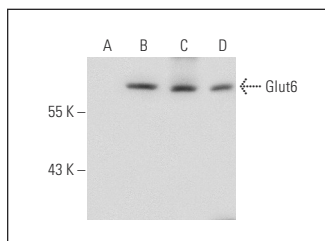
Glut6 (K-16) is recommended for detection of Glut6 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Glut6 siRNA (h): sc-60699, Glut6 shRNA Plasmid (h): sc-60699-SH and Glut6 shRNA (h) Lentiviral Particles: sc-60699-V.

Molecular Weight of Glut6: 55 kDa.

Positive Controls: T24 cell lysate: sc-2292 or MIA PaCa-2 cell lysate: sc-2285.

DATA



Glut6 (K-16): sc-48170. Western blot analysis of Glut6 expression in non-transfected 293: sc-110760 (A), mouse Glut6 transfected 293: sc-178677 (B), MIA PaCa-2 (C) and T24 (D) whole cell lysates.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


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Try **Glut6 (B-3): sc-373973**, our highly recommended monoclonal alternative to Glut6 (K-16).