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SLC2A4

Reactivity: Human Mouse Rat

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:1000

Calculated MW:56kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human SLC2A4

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

SLC2A4;GLUT4;Solute carrier family 2;facilitated glucose transporter member 4;Glucose transporter type 4; insulin-responsive;

Catalog #:A0071

Antibody Type:

Monoclonal Antibody

Species: Mouse

Gene ID:6517

Isotype: IgG

Swiss Prot:P14672

Purity: Affinity purification

For research use only.

Background:

A group of related glucose transporters (Glut1-5 and 7) mediate the facilitated diffusion of glucose in nonepithelial mammalian tissues. Within insulin-responsive tissues such as muscle and fat, Glut1 contributes to basal glucose uptake while SLC2A4 is responsible for insulin-stimulated glucose transport (1-3). SLC2A4 is a 12-transmembrane domain protein that facilitates glucose transport in the direction of the glucose gradient. This transporter localizes to intracellular organelles (endosomes) in unstimulated cells and translocates to the cell surface following insulin stimulation (1,2,4). Translocation of SLC2A4 is dependent on Akt, which may act by phosphorylating AS160, a RabGAP protein involved in membrane trafficking (5).

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