

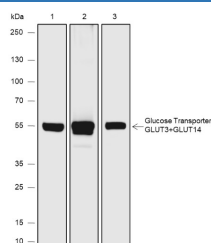
Recombinant GLUT3+GLUT14 Monoclonal Antibody

catalog number: AN301929L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Reactivity	Human;Rat
Immunogen	Recombinant human GLUT3+GLUT14 fragment
Host	Rabbit
Isotype	IgG, κ
Clone	C731550
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.
Applications	
WB	1:1000

Data



Western Blot with GLUT3+GLUT14 Monoclonal Antibody
at dilution of 1:1000. Lane 1: U-87 MG, Lane 2: HepG2,
Lane 3: C6

Observed-MW:54 kDa

Calculated-MW:54 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

A group of related glucose transporters (Glut1-5 and 7) mediate the facilitated diffusion of glucose in nonepithelial mammalian tissues. Glucose transporter 3 (Glut3), also known as SLC2A3, has a higher affinity for glucose than the ubiquitous glucose transporter Glut1. In the normal brain, Glut3 expression is limited to neurons, whereas Glut1 is expressed in both neurons and glia. Glioblastoma-derived brain tumor initiating cells (BTICs) express increased levels of Glut3, enabling their survival in the microenvironment deficient in glucose. In addition, Glut3 expression levels correlate with poor survival in brain tumors. Glucose transporter 4 (Glut4) 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. Translocation of Glut4 is dependent on Akt, which may act by phosphorylating AS160, a RabGAP protein involved in membrane trafficking. The antibody can detect both GLUT3 and GLUT4.

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