Glucose Transporter GLUT3 Rabbit mAb

Catalog No: #49567

Package Size: #49567-1 50ul #49567-2 100ul

Signalway Antibody
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Description

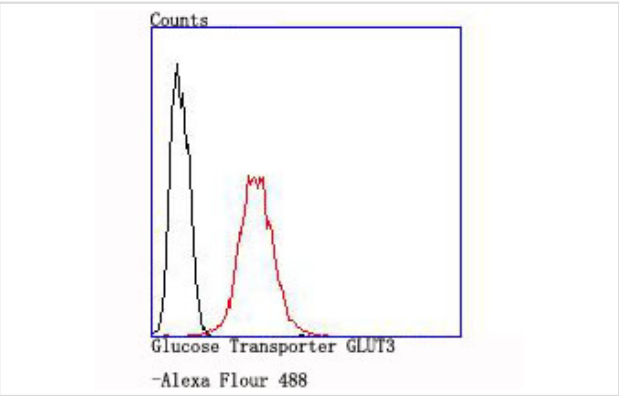
Product Name	Glucose Transporter GLUT3 Rabbit mAb
Clonality	Monoclonal
Clone No.	JA50-31
Purification	ProA affinity purified
Applications	WB; FC
Species Reactivity	Hu, Ms, Rt
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide within Human GLUT3
Conjugates	Unconjugated
Other Names	brain antibody FLJ90380 antibody Glucose transporter type 3 antibody Glucose transporter type 3 brain antibody GLUT 3 antibody GLUT-3 antibody GLUT3 antibody GTR3_HUMAN antibody Slc2a3 antibody Solute Carrier Family 2 (Facilitated Glucose Transporter) Member 3 antibody Solute carrier family 2, facilitated glucose transporter member 3 antibody
Accession No.	Swiss-Prot#:P11169
Calculated MW	54 kDa
Formulation	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

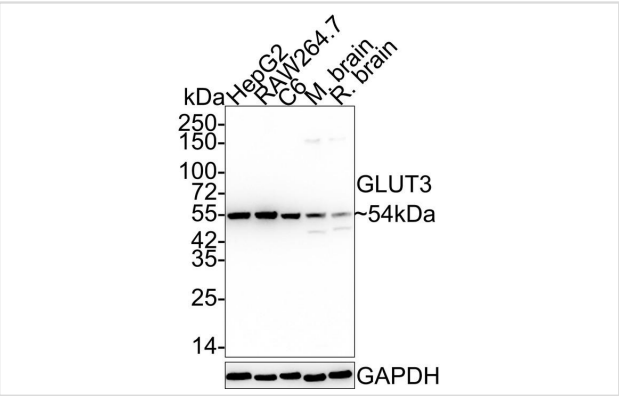
WB 1:5000

FC 1:50-1:100

Images



Flow cytometric analysis of SH-SY5Y cells with Glucose Transporter GLUT3 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).



Western blot analysis of Glucose Transporter GLUT3 on different lysates with GLUT3 antibody at 1/5000 dilution.
Lane 1: HepG2 cell lysate (20 µg/Lane)
Lane 2: RAW264.7 cell lysate (20 µg/Lane)
Lane 3: C6 cell lysate (20 µg/Lane)
Lane 4: Mouse brain tissue lysate (20 µg/Lane)
Lane 5: Rat brain tissue lysate (20 µg/Lane)
Predicted band size: 54 kDa
Observed band size: 54 kDa

Background

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. Glut1, Glut3 and Glut4 are high-affinity transporters, whereas Glut2 is a low-affinity transporter. In adipose and muscle tissue, Insulin stimulates a rapid and dramatic increase in glucose uptake, 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. Glut2 expression is seen in pancreatic b cells, hepatocytes and basolateral membranes of intestinal and epithelial cells, while the highest expression of Glut3 has been found in neuronal tissue.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.