

Glucose Transporter GLUT4 Antibody

Catalog No: #48116

Package Size: #48116-1 50ul #48116-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

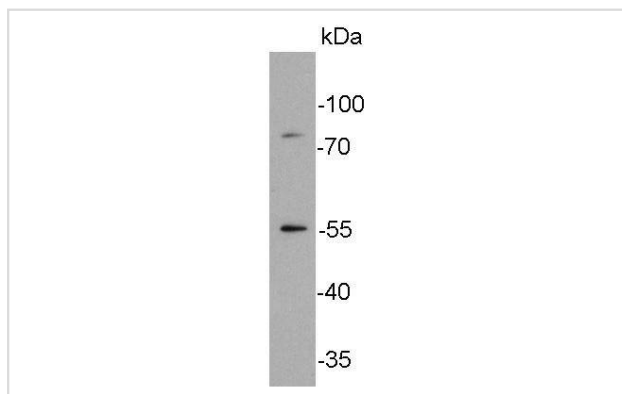
Description

Product Name	Glucose Transporter GLUT4 Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	3-A10
Purification	ProA affinity purified
Applications	WB, ICC, IHC
Species Reactivity	Hu, Ms
Immunogen Description	peptide
Other Names	Glucose transporter GLUT 4 Glucose transporter type 4 Glucose transporter type 4 insulin responsive GLUT 4 GLUT-4 GLUT4 GTR4_HUMAN Insulin responsive glucose transporter type 4 insulin-responsive kug SLC 2A4 SLC2A4 solute carrier family 2 (facilitated glucose transporter) member 4 Solute carrier family 2 member 4 Solute carrier family 2, facilitated glucose transporter member 4
Accession No.	Swiss-Prot#:P14672
Uniprot	P14672
GeneID	6517;
Calculated MW	55 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

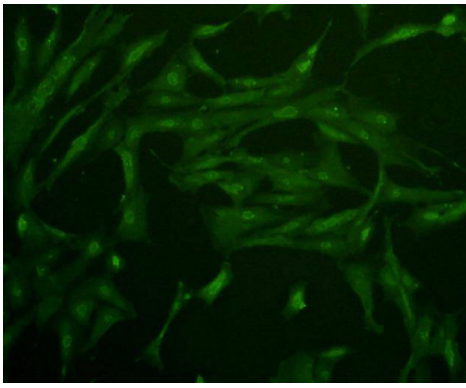
Application Details

WB: 1:2,000-1:5,000 ICC: 1:100-1:200

Images



Western blot analysis on NIH/3T3 cell lysates using anti- Glut4 mouse mAb.



ICC staining Glut4 in NIH/3T3 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Under conditions of low insulin, most GLUT4 is sequestered in intracellular vesicles in muscle and fat cells. Insulin induces a rapid increase in the uptake of glucose by inducing the translocation of GLUT4 from these vesicles to the plasma membrane. As the vesicles fuse with the plasma membrane, GLUT4 transporters are inserted and become available for transporting glucose, and glucose absorption increases. Muscle contraction stimulates muscle cells to translocate GLUT4 receptors to their surfaces. This is especially true in cardiac muscle, where continuous contraction can be relied upon; but is observed to a lesser extent in skeletal muscle.

References

Note: This product is for in vitro research use only