Data Sheet (Cat.No.TMAC-01676)

Anti-Glucose Transporter GLUT4 Antibody (9P565)

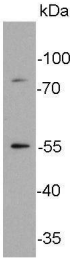
Product Details

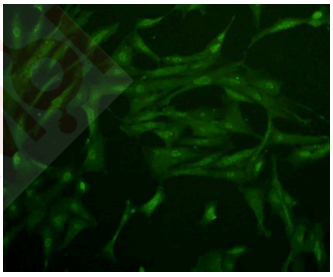
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 55 kDa.
Clone:	9P565
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis on NIH/3T3 cell lysates using anti- Glut4 mouse mAb.
2. ICC staining Glut4 in NIH/3T3 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application:	ICC,IHC,WB
Recommended	WB: 1:2000-5000; ICC: 1:100-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Peptide
Uniprot ID:	P14672
Synonyms:	Solute carrier family 2, facilitated glucose transporter member 4;GTR4;Glucose transporter type 4;Glucose transporter GLUT 4;kug;Glucose Transporter GLUT4;SLC 2A4;solute carrier family 2 (facilitated glucose transporter) member 4;GLUT-4;Glucose transporter type 4 insulin responsive;insulin-responsive

Research 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.

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