Glut 4 (R271) polyclonal antibody

Catalog: BCP00825 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

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. Glut1 and Glut4 are twelve pass transmembrane proteins (12TM) whose carboxy-termini may dictate their cellular localization. Aberrant Glut4 expression has been suggested to contribute to such maladies as obesity and diabetes. Glut4 null mice have shown that while functional Glut4 protein is not required for maintaining normal glucose levels, it is necessary for sustained growth, normal cellular glucose, fat metabolism and prolonged longevity.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

45 to 60 kDa

Swiss-Prot:

P14672

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

Glut4 (R271) polyclonal antibody detects endogenous levels of Glut4 protein.

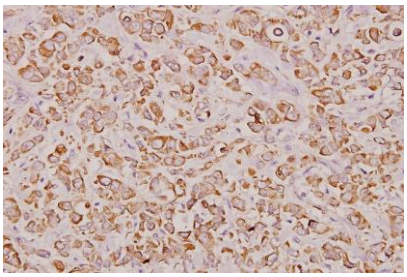
DATA:

Western blot (WB) analysis of Glut 4 (R271) pAb at 1:500 dilution

Lane1:The Heart tissue lysate of Mouse(40ug)

Lane2:The Heart tissue lysate of Rat(20ug)

Lane3:MCF-7 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of Glut 4 (R271) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

Note:

For research use only, not for use in diagnostic procedure.