

GLUT2 Rabbit mAb

Catalog No: #49243



Package Size: #49243-1 50ul #49243-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

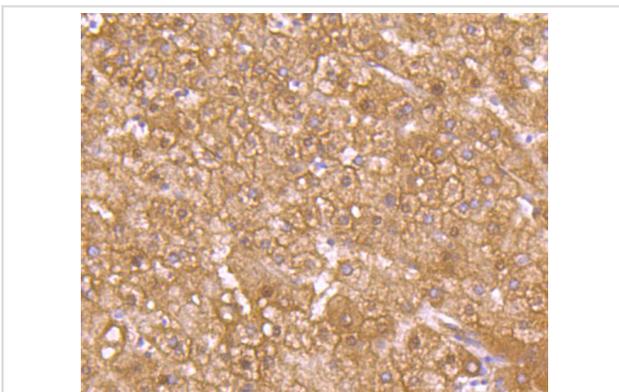
Description

Product Name	GLUT2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JJ20-21
Purification	ProA affinity purified
Applications	WB, IHC, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	liver antibody Glucose Transporter 2 antibody Glucose Transporter GLUT2 antibody Glucose transporter type 2 antibody Glucose transporter type 2 liver antibody Glucose transporter, liver/islet antibody GLUT-2 antibody GLUT2 antibody GTR2_HUMAN antibody GTT2 antibody SLC2A2 antibody Solute carrier family 2 (facilitated glucose transporter) member 2 antibody Solute carrier family 2 facilitated glucose transporter member 2 antibody Solute carrier family 2, facilitated glucose transporter member 2 antibody
Accession No.	Swiss-Prot#:P11168
Calculated MW	57 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

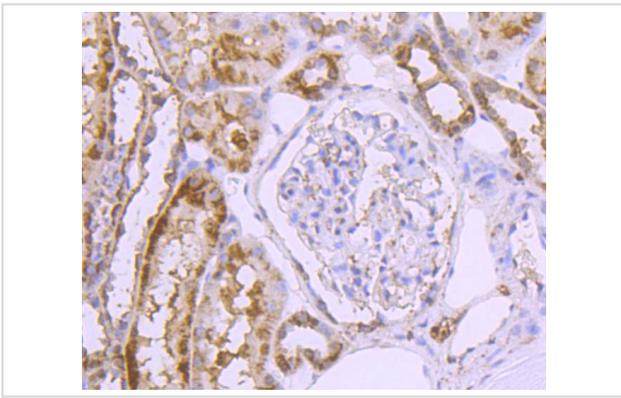
Application Details

WB: 1:500-1:1000 IHC: 1:50-1:200 FC: 1:50-1:100

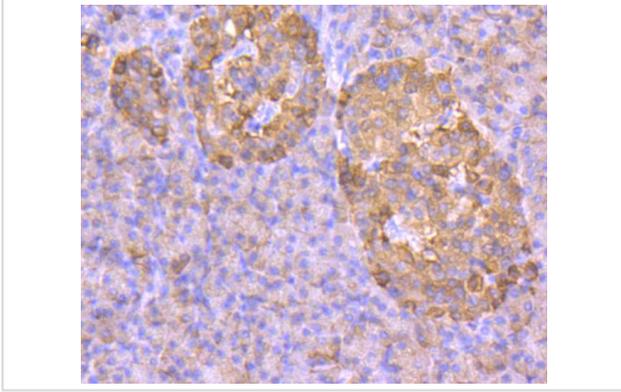
Images



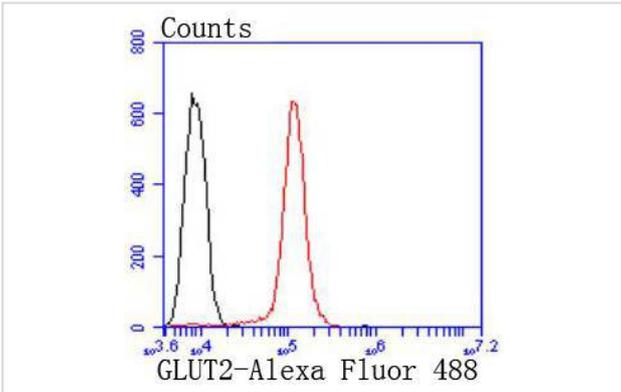
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-GLUT2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-GLUT2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-GLUT2 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of HepG2 cells with GLUT2 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

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, which is 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 beta cells, hepatocytes and basolateral membranes of intestinal and epithelial cells, while the highest expression of Glut3 has been found in neuronal tissue.

References

1. Pettinato G et al. ROCK inhibitor is not required for embryoid body formation from singularized human embryonic stem cells. PLoS One 9:e100742 (2014).
2. Pettinato G et al. Formation of well-defined embryoid bodies from dissociated human induced pluripotent stem cells using microfabricated cell-repellent microwell arrays. Sci Rep 4:7402 (2014).

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