

Product datasheet for **TA336933**

SLC2A2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	Immunocytochemistry/ Immunofluorescence: 1:500, Western Blot: 1.0 - 2.0 ug/ml, Immunohistochemistry-Paraffin: 1:200, Immunohistochemistry: 1:200
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to an internal portion of the human GLUT2 protein (between residues 50-150) [UniProt P11168]
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	solute carrier family 2 member 2
Database Link:	NP_000331 Entrez Gene 20526 Mouse Entrez Gene 6514 Human P11168



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Background: SLC2A2 (Solute Carrier Family 2), also known as Glucose Transporter GLUT2, is an integral plasma membrane glycoprotein found in the liver, islet beta cells, intestine, and kidney epithelium. This isoform of the glucose transporter mediates the two way transfer of glucose across the plasma membrane and is responsible for the uptake of glucose in beta cells. Mutations in SLC2A2 lead to Fanconi-Bickel syndrome (FBS), which results in hepatorenal glycogen accumulation, proximal renal tubular dysfunction, and impaired utilization of glucose and galactose. Recent studies have shown that mutations in SLC2A2 can cause neonatal diabetes, and therefore may contribute to human insulin secretion (PMID: 22660720). Novel SLC2A2 mutations have also been discovered and are being investigated to determine their roles in FBS as well (PMID: 22145468).

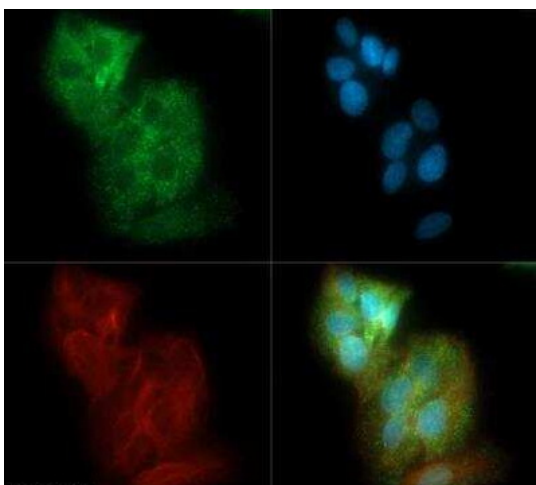
Synonyms: GLUT2

Note: This Glucose Transporter GLUT2 antibody is useful for Western blot, Immunocytochemistry/Immunofluorescence, and Immunohistochemistry on paraffin embedded sections. In Western blot a band was observed ~ 55 kDa. In ICC/IF membrane staining was observed in HepG2 cells. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

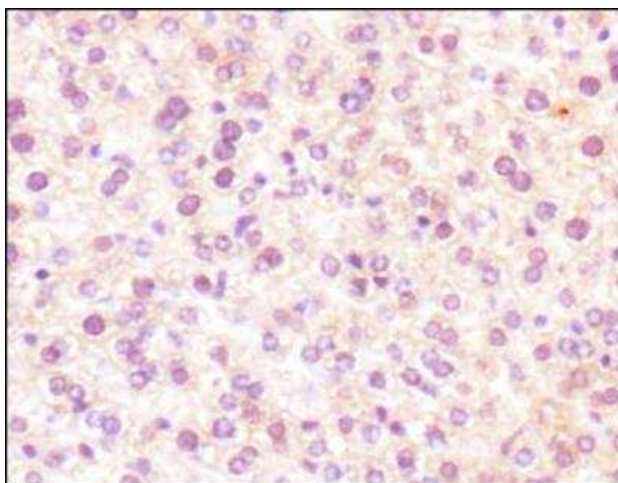
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Maturity onset diabetes of the young, Type II diabetes mellitus

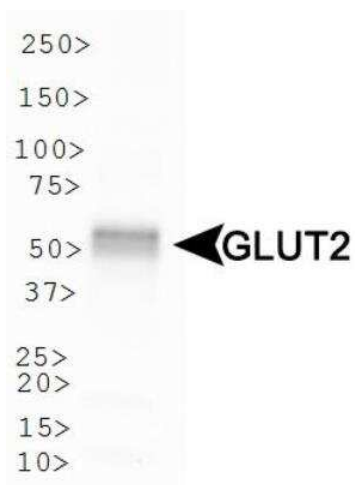
Product images:



Immunocytochemistry/Immunofluorescence:
Glut2 Antibody TA336933 - Glut2 antibody was tested in HepG2 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



Immunohistochemistry: Glut2 Antibody TA336933 - Staining of Glucose Transporter GLUT2 in mouse liver.



Western Blot: Glut2 Antibody TA336933 - Analysis of Glucose Transporter GLUT2 in human pancreas.