G-Biosciences Image not found or type unknown

Immunotag™ GTR2 Polyclonal Antibody

Antibody Specification

Catalog No.	ITN1353
Product Description	Immunotag™ GTR2 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	GTR2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	Synthesized peptide derived from human protein, at AA range: 220-300
Specificity	GTR2 Polyclonal Antibody detects endogenous levels of protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Gene Name	SLC2A2 GLUT2
Accession No.	P11168 P14246 P12336

Antibody Specification

Description	solute carrier family 2 member 2(SLC2A2) Homo sapiens This gene encodes an integral plasma membrane glycoprotein of the liver, islet beta cells, intestine, and kidney epithelium. The encoded protein mediates facilitated bidirectional glucose transport. Because of its low affinity for glucose, it has been suggested as a glucose sensor. Mutations in this gene are associated with susceptibility to diseases, including Fanconi-Bickel syndrome and noninsulin-dependent diabetes mellitus (NIDDM). Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013],
Cell Pathway/ Category	Type II diabetes mellitus,Maturity onset diabetes of the young,
Protein Expression	Kidney,Liver,Peripheral blood,
Subcellular Localization	cytoplasm,plasma membrane,integral component of plasma membrane,brush border,cell-cell junction,membrane,integral component of membrane,apical plasma membrane,
Protein Function	disease:Defects in SLC2A2 are the cause of Fanconi-Bickel syndrome (FBS) [MIM:227810]. FBS is a rare, well-defined clinical entity, inherited in an autosomal recessive mode and characterized by hepatorenal glycogen accumulation, proximal renal tubular dysfunction, and impaired utilization of glucose and galactose.,function:Facilitative glucose transporter. This isoform likely mediates the bidirectional transfer of glucose across the plasma membrane of hepatocytes and is responsible for uptake of glucose by the beta cells; may comprise part of the glucose-sensing mechanism of the beta cell. May also participate with the Na(+)/glucose cotransporter in the transcellular transport of glucose in the small intestine and kidney.,online information:GLUT2 entry,PTM:N-glycosylated; required for stability and retention at the cell surface of pancreatic beta cells.,similarity:Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily.,tissue specificity:Liver, insulin-producing beta cell, small intestine and kidney.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.