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GLUT2 Rabbit pAb

Catalog # AP98857

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P11168
Other Accession	P11168
Reactivity	Rat, Human, Mouse
Predicted	Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57490
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GLUT2
Epitope Specificity	1-100/524
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily.
Post-translational modifications	N-glycosylated; required for stability and retention at the cell surface of pancreatic beta cells.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	6514
Other Names	GTR2_HUMAN; SLC2A2; Glucose transporter type 2, liver (GLUT-2); GLUT2; GTR2_MOUSE; GTR2_RAT; solute carrier family 2 member 2; solute carrier family 2 (facilitated glucose transporter), member 2
	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1

Dilution	g/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SLC2A2 (HGNC:11006)
Function	Facilitative hexose transporter that mediates the transport of glucose, fructose and galactose (PubMed:16186102, PubMed:23396969, PubMed:28083649, PubMed:8027028, PubMed:8457197). 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 beta cells (PubMed:8027028). May also participate with the Na(+)/glucose cotransporter in the transcellular transport of glucose in the small intestine and kidney (PubMed:3399500). Also able to mediate the transport of dehydroascorbate and urate (PubMed:23396969, PubMed:40209957).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Liver, insulin-producing beta cell, small intestine and kidney.

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