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Anti-SLC2A2 Picoband Antibody

Catalog # ABO12126

Product Information

Application	WB, IHC-P
Primary Accession	P11168
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Solute carrier family 2, facilitated glucose transporter member 2(SLC2A2) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6514
Other Names	Solute carrier family 2, facilitated glucose transporter member 2, Glucose transporter type 2, liver, GLUT-2, SLC2A2, GLUT2
Calculated MW	57490
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Membrane; Multi-pass membrane protein.
Tissue Specificity	Liver, insulin-producing beta cell, small intestine and kidney.
Source	Eukaryota
Protein Name	Solute carrier family 2, facilitated glucose transporter member 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SLC2A2 (486-514aa ETKGKSFEEIAAEFQKKSGSAHRPKAAVE), different from the related mouse sequence by five amino acids, and from the related rat sequence by seven amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily.

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.

Background

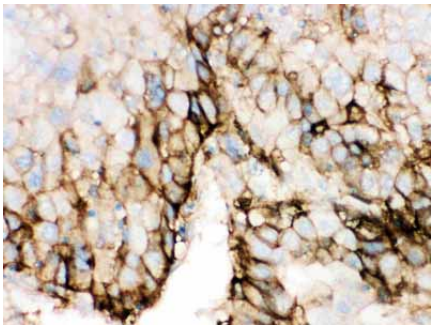
SLC2A2, also known as Glucose transporter 2 (GLUT2), is a transmembrane carrier protein that enables protein facilitatedglucose movement across cell membranes. This gene encodes an integral plasma membrane glycoprotein of the liver, islet beta cells, intestine, and kidney epithelium. The encoded protein 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.

Images



Anti- SLC2A2 Picoband antibody, ABO12126, Western blottingAll lanes: Anti SLC2A2 (ABO12126) at 0.5ug/mlLane 1: PANC Whole Cell Lysate at 40ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: HT1080 Whole Cell Lysate at 40ugPredicted bind size: 57KDObserved bind size: 50KD

Anti- SLC2A2 Picoband antibody, ABO12126, IHC(P)IHC(P): Human Liver Cancer Tissue



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