

**Anti-SLC2A2 Picoband Antibody**  
**Catalog # ABO12126****Specification****Anti-SLC2A2 Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P11168</a>
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.

**Anti-SLC2A2 Picoband Antibody - 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 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Membrane; Multi-pass membrane protein.

**Tissue Specificity**

Liver, insulin-producing beta cell, small intestine and kidney.

**Protein Name**

Solute carrier family 2, facilitated glucose transporter member 2

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**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.

**Anti-SLC2A2 Picoband Antibody - Protein Information****Name** SLC2A2 ([HGNC:11006](#))**Function**

Facilitative hexose transporter that mediates the transport of glucose, fructose and galactose (PubMed:<a href="http://www.uniprot.org/citations/16186102" target="\_blank">16186102</a>, PubMed:<a href="http://www.uniprot.org/citations/23396969" target="\_blank">23396969</a>, PubMed:<a href="http://www.uniprot.org/citations/28083649" target="\_blank">28083649</a>, PubMed:<a href="http://www.uniprot.org/citations/8027028" target="\_blank">8027028</a>, PubMed:<a href="http://www.uniprot.org/citations/8457197" target="\_blank">8457197</a>). 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:<a href="http://www.uniprot.org/citations/8027028" target="\_blank">8027028</a>). May also participate with the Na(+) glucose cotransporter in the transcellular transport of glucose in the small intestine and kidney (PubMed:<a href="http://www.uniprot.org/citations/3399500" target="\_blank">3399500</a>). Also able to mediate the transport of dehydroascorbate and urate (PubMed:<a href="http://www.uniprot.org/citations/23396969" target="\_blank">23396969</a>, PubMed:<a href="http://www.uniprot.org/citations/40209957" target="\_blank">40209957</a>).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Liver, insulin-producing beta cell, small intestine and kidney.

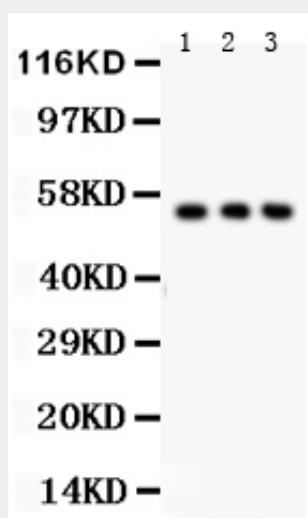
**Anti-SLC2A2 Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

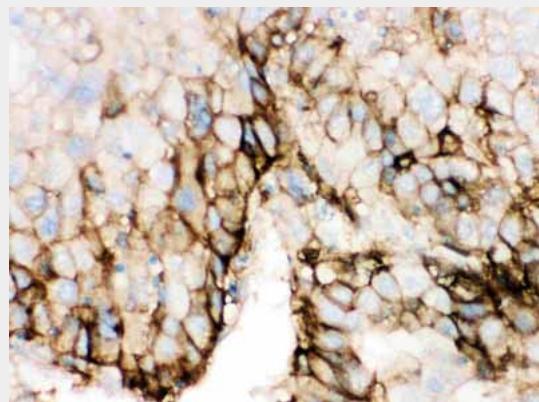
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-SLC2A2 Picoband Antibody - 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

### Anti-SLC2A2 Picoband Antibody - Background

SLC2A2, also known as Glucose transporter 2 (GLUT2), is a transmembrane carrier protein that enables protein facilitated glucose 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.