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## Anti-Human GLUT2 Polyclonal Antibody

**CL8886AP**  
**CL8886AP-S**  
**Lot: 168621**

### DESCRIPTION:

Glucose transporter 2 (GLUT2) is a transmembrane carrier protein that enables facilitated glucose movement across the cell membrane. It is the primary transporter responsible for transfer of glucose between liver and blood and has a role in renal glucose reabsorption<sup>1</sup>. Additionally, GLUT2 likely mediates bidirectional glucose transport across the hepatocyte membrane and is responsible for uptake of glucose by beta cells, small intestine and kidney epithelium<sup>2</sup>. Due to its low affinity for glucose, it has been suggested to function as a glucose sensor in pancreatic beta cells<sup>3</sup>. Defects in GLUT2 are associated with the glycogen storage disease Fanconi-Bickel syndrome<sup>4</sup>.

### PRESENTATION:

100 µg (**CL8886AP**) or 20 µg (**CL8886AP-S**) purified IgG buffered in PBS and 0.02% NaN<sub>3</sub>. (Purified from serum via Affinity Chromatography). For maximum recovery of contents, spin down tube before use.

### STORAGE/STABILITY:

Store at + 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

### SPECIFICATION:

Immunogen: 17 amino acid synthetic peptide located near the C-terminus of human GLUT2.

Specificity: This antibody is specific for human GLUT2; it's also specific for mouse based on sequence identity.

IgG Class: Rabbit IgG

Application: This antibody is suitable for use in ELISA, Western Blot (0.01µg/mL) and Immunohistochemistry with paraffin embedded sections (4 µg/mL). This antibody has not been tested in other applications.

*Continued Overleaf.....*

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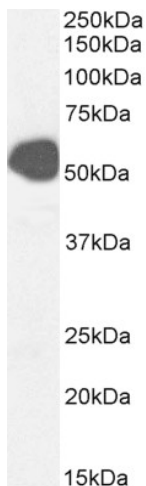
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## **TEST RESULTS:**

### **Western Blot:**



CL8886AP (0.01 $\mu$ g/ml) staining of a human pancreas lysate (35 $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**N.B.** Appropriate control samples should always be included in any labeling studies.

\* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

### **REFERENCES:**

1. Gould GW, Thomas HM, Jess TJ, Bell GI. (1991) **Expression of human glucose transporters in *Xenopus* oocytes: kinetic characterization and substrate specificities of the erythrocyte, liver, and brain isoforms.** *Biochemistry*. 30(21):5139-45.
2. Kellett GL, Brot-Laroche E. (2005) **Apical GLUT2: a major pathway of intestinal sugar absorption.** *Diabetes*. 54(10):3056-62.
3. Guillam MT, et al. (1997) **Early diabetes and abnormal postnatal pancreatic islet development in mice lacking *Glut-2*.** *Nat Genet*. 17(3):327-30.
4. Santer R, et al. (2002) **The mutation spectrum of the facilitative glucose transporter gene *SLC2A2* (GLUT2) in patients with Fanconi-Bickel syndrome.** *Hum Genet*. 110(1):21-9.

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