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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[1]. 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[2]. Due to its low affinity for glucose, it has been suggested to function as a glucose sensor in pancreatic beta cells[3]. Defects in GLUT2 are associated with the glycogen storage disease Fanconi-Bickel syndrome[4].

PRESENTATION:

100 µg (**CL8886AP**) or 20 µg (**CL8886AP-S**) purified IgG buffered in PBS and 0.02% NaN_3. (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.....

In CANADA: Toll Free: 1-800-268-5058
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TEST RESULTS:

Western Blot:

CL8886AP (0.01µg/ml) staining of a human pancreas lysate (35µg 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:

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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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