Product datasheet

# Anti-Glucagon/GCG Antibody

**Catalog Number: *PB0742***

BOSTER
antibody and ELISA experts
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-Glucagon/GCG Antibody |
| **Gene Name** | GCG |
| **Source** | Rabbit |
| **Isotype** | IgG |
| **Species Reactivity** | human, mouse, rat |
| **Tested Application** | IHC, IF |
| **Contents** | 500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol. |
| **Immunogen** | A synthetic peptide corresponding to a sequence at the N-terminus of human GLP1 (53-81aa HSQGTFTSDYSKYLDSRRAQDFVQWLMNT), identical to the related mouse and rat sequences. |
| **concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Dilution Ratios** | Immunohistochemistry in paraffin section (IHC): 1:50-400<br>Immunofluorescence (IF): 1:50-400<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

## Background Information

GCG is also known as GLP1, or Glucagon. Glucagon is a 29-amino acid pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. It is mapped to 2q36-2q37. GLP1, also known as 7-37 for the codons of the preproglucagon molecule which encode it, renders pancreatic beta-cells 'glucose-competent' and may be useful in the treatment of noninsulin-dependent diabetes mellitus. Also, GLP1 is a potent insulin secretagogue. It plays a major role in the enteroinsular axis, accounting, for example, for the finding that plasma insulin levels accompanying oral intake of glucose are greater than those observed when glucose is given intravenously.

## Reference

Anti-Glucagon/GCG Antibody被引用在1文献中。

## Selected Validation Data

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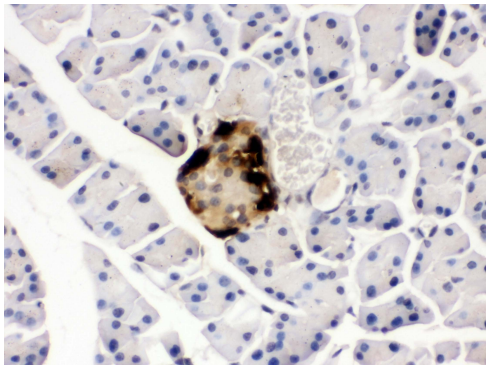

Figure 1. IHC analysis of GLP1 using anti-GLP1 antibody (PB0742). GLP1 was detected in paraffin-embedded section of mouse pancreas tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-GLP1 Antibody (PB0742) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

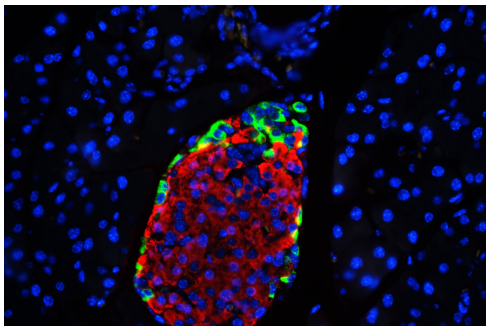

Figure 4. IF analysis of GLP1 using anti- GLP1 antibody (PB0742) GLP1 was detected in paraffin-embedded section of mouse pancreas tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution ) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/mL rabbit anti- GLP1 Antibody (PB0742) and The tissue section was then incubated with 1µg/mL rabbit anti- Insulin Antibody (BM4310) overnight at 4°C. DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) and Dylight cy3-conjugated Goat Anti-rabbit IgG Secondary Antibody (red)(Catalog #（BA1032）was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.