

Anti-GLP1/GCG Antibody Picoband™

Catalog Number: PB9705

About GCG

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.

Overview

Product Name	Anti-GLP1/GCG Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GLP1/GCG Antibody Picoband™ catalog # PB9705. Tested in IF, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P01275

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GLP1, identical to the related mouse and rat sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat Immunofluorescence, 2ug/ml, Rat

Anti-GLP1/GCG Antibody Picoband™ (PB9705) Images

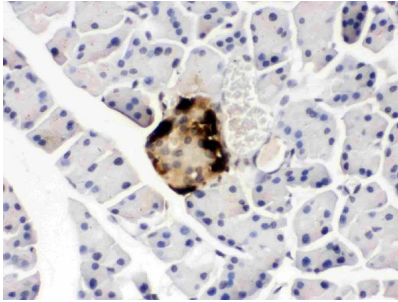


Figure 1. IHC analysis of GLP1 using anti-GLP1 antibody (PB9705).

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 1ug/ml rabbit anti-GLP1 Antibody (PB9705) 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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

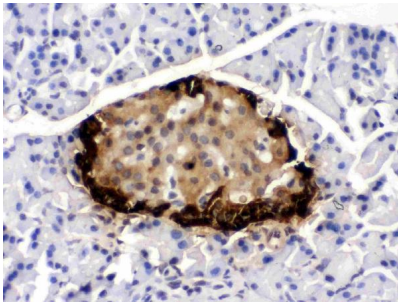


Figure 2. IHC analysis of GLP1 using anti-GLP1 antibody (PB9705).

GLP1 was detected in paraffin-embedded section of rat 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 1ug/ml rabbit anti-GLP1 Antibody (PB9705) 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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

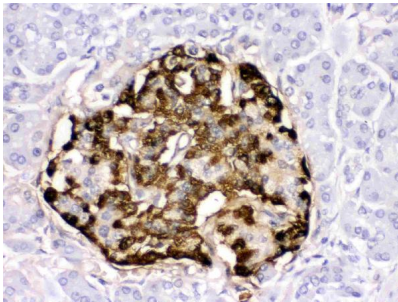


Figure 3. IHC analysis of GLP1 using anti-GLP1 antibody (PB9705).

GLP1 was detected in paraffin-embedded section of human pancreatic cancer 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 1ug/ml rabbit anti-GLP1 Antibody (PB9705) 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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

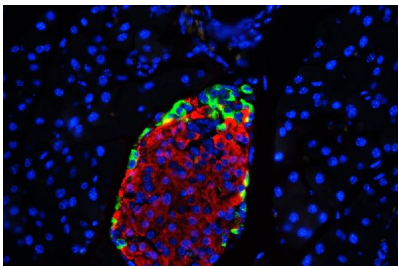


Figure 4. IF analysis of GLP1 using anti-GLP1 antibody (PB9705)

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 1ug/mL rabbit anti-GLP1 Antibody (PB9705) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) 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.

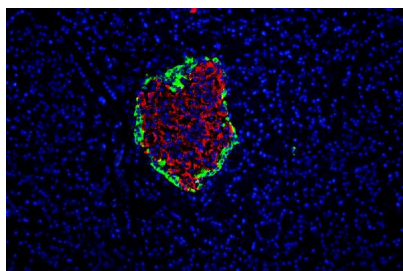


Figure 5. IF analysis of GLP1 using anti-GLP1 antibody (PB9705)

GLP1 was detected in paraffin-embedded section of rat 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 1ug/mL rabbit anti-GLP1 Antibody (PB9705) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) 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.

9 Publications Citing This Product

1. PubMed ID: 32328034, Huo K, Li X, Hu W, Song X, Zhang D, Zhang X, Chen X, Yuan J, Zuo J, Wang X. RFRP-3, the Mammalian Ortholog of GnlH, Is a Novel Modulator Involved in Food Intake and Glucose Homeostasis. *Front Endocrinol (Lausanne)*. 2020 Apr 9;11:194. doi:10.3389/fendo.2020.00194. PMID
2. PubMed ID: 29089617, Low dose doxycycline decreases systemic inflammation and improves glycemic control, lipid profiles, and islet morphology and function in db/db mice
3. PubMed ID: 20842108, Tang Mm, Zhu Qe, Fan Wz, Zhang Sl, Li Dz, Liu Lz, Chen M, Zhang M, Zhou J, Wei Cj. *Mol Ther*. 2011 Jan;19(1):60-6. Doi: 10.1038/Mt.2010.187. Epub 2010 Sep 14. Intra-Arterial Targeted Islet-Specific Expression Of Sirt1 Protects ?? Cells From Strepto...

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