

Anti-Glucagon Gcg Antibody (Monoclonal, K79bB10)

Catalog Number: MA1047

About Gcg

Glucagon is a member of a multigene family that includes secretin. Glucagon is a 29-amino acid pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. The human glucagon gene is approximately 9.4 kb long and contains 6 exons and 5 introns, and assigned to 2q36-2q37.

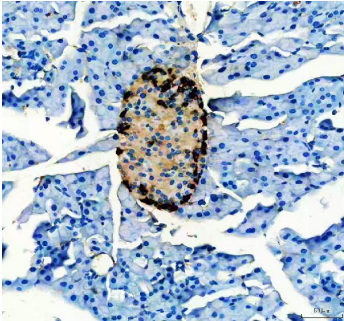
Overview

Product Name	Anti-Glucagon Gcg Antibody (Monoclonal, K79bB10)
Reactive Species	Human, Mouse, Rabbit, Rat
Description	Boster Bio Anti-Glucagon Gcg Antibody (Monoclonal, K79bB10) catalog # MA1047. Tested in IF, IHC applications. This antibody reacts with Human, Mouse, Rabbit, Rat.
Application	IF, IHC
Clonality	Monoclonal K79bB10
Formulation	Mouse IgG in stabilizing components, 1.2% sodium acetate and 0.01mg NaN ₃ .
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	Mouse
Uniprot ID	P06883

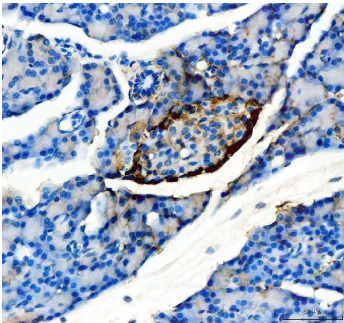
Technical Details

Immunogen	Polymerized porcine glucagon.
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG1
Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 1-2ug/ml, Human, mouse, rat, rabbit Immunofluorescence, 5 ug/ml, Human

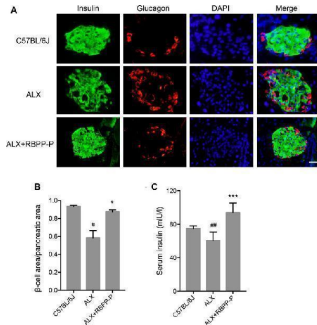
Anti-Glucagon Gcg Antibody (Monoclonal, K79bB10) (MA1047) Images



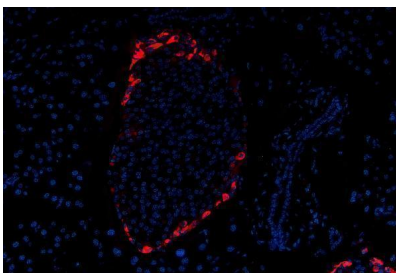
IHC analysis of Glucagon using anti-Glucagon antibody (MA1047). Glucagon was detected in a paraffin-embedded section of mouse pancreas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Glucagon Antibody (MA1047) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



IHC analysis of Glucagon using anti-Glucagon antibody (MA1047). Glucagon was detected in a paraffin-embedded section of rat pancreas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Glucagon Antibody (MA1047) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



Effects of the RBPP-P on islet histology. (A) Immunofluorescence (IF) staining for insulin (green) and glucagon (red). Scale bar, 100 um. (B) beta-cell area/pancreatic area ratio, measured by immunofluorescence staining (n = 5). (C) Insulin levels in serum (n = 10). All data are expressed as mean ± s. d. # p < 0.05, vs. C57BL/6J mice; *p < 0.05, vs. ALX mice. Index in PubMed under a CC BY license. PMID: 34262457



IF analysis of Glucagon using anti-Glucagon antibody (MA1047). Glucagon was detected in a paraffin-embedded section of mouse pancreas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL mouse anti-Glucagon Antibody (MA1047) overnight at 4°C. DyLight®594 Conjugated Goat Anti-Mouse IgG (BA1141) was used as secondary antibody at 1:500 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.

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 GnIH, 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 SI, 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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