

# GCG monoclonal antibody, clone K79bB10

Catalog # MAB1500

Size 100 ug

## Specification

|                             |                                                                                                                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Mouse monoclonal antibody raised against native GCG.                                                                                                                                                                       |
| <b>Immunogen</b>            | Native from porcine glucagon.                                                                                                                                                                                              |
| <b>Host</b>                 | Mouse                                                                                                                                                                                                                      |
| <b>Theoretical MW (kDa)</b> | 253.25                                                                                                                                                                                                                     |
| <b>Reactivity</b>           | Human, Rat                                                                                                                                                                                                                 |
| <b>Form</b>                 | Lyophilized                                                                                                                                                                                                                |
| <b>Purification</b>         | Affinity purification                                                                                                                                                                                                      |
| <b>Isotype</b>              | IgG1                                                                                                                                                                                                                       |
| <b>Recommend Usage</b>      | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL)<br>The optimal working dilution should be determined by the end user.                                                                     |
| <b>Storage Buffer</b>       | Lyophilized from 1.2% sodium acetate (2 mg BSA, 0.01 mg sodium azide)                                                                                                                                                      |
| <b>Storage Instruction</b>  | Store at -20°C on dry atmosphere.<br>After reconstitution with 1 mL of 1.2% sodium acetate or neutral PBS and concentration will be 100 ug/mL, store at -20°C or lower.<br>Aliquot to avoid repeated freezing and thawing. |
| <b>Note</b>                 | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                     |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

## Gene Info — GCG

Entrez GeneID [2641](#)

Gene Name GCG

Gene Alias GLP1, GLP2, GRPP

Gene Description glucagon

Omim ID [138030](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

The protein encoded by this gene is actually a preproprotein that is cleaved into four distinct mature peptides. One of these, glucagon, is a pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. Glucagon is a ligand for a specific G-protein linked receptor whose signalling pathway controls cell proliferation. Two of the other peptides are secreted from gut endocrine cells and promote nutrient absorption through distinct mechanisms. Finally, the fourth peptide is similar to glicentin, an active enteroglucagon. [provided by RefSeq]

**Other Designations** glicentin-related polypeptide|glucagon-like peptide 1|glucagon-like peptide 2

## Publication Reference

- [Secretin release after Roux-en-Y gastric bypass reveals a population of glucose-sensitive S cells in distal small intestine.](#)

Ida M Modvig, Daniel B Andersen, Kaare V Grunddal, Rune E Kuhre, Christoffer Martinussen, Charlotte B Christiansen, Cathrine Ørskov, Pierre Larraufie, Richard G Kay, Frank Reimann, Fiona M Gribble, Bolette Hartmann, Kirstine N Bojsen-Møller, Sten Madsbad, Nicolai J Wewer Albrechtsen, Jens J Holst.

International Journal of Obesity (2005) 2020 Sep; 44(9):1859.

Application: IHC, Rat, Pancreatic islets

- [Structure of the human glucagon gene.](#)

White JW, Saunders GF.

Nucleic Acids Research 1986 Jun; 14(12):4719.

## Pathway

- [Neuroactive ligand-receptor interaction](#)

## Disease

- [Atherosclerosis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Obesity](#)