GCG monoclonal antibody, clone K79bB10

Catalog # MAB1500 Size 100 ug

Specification

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

Applications

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

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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 matur e peptides. One of these, glucagon, is a pancreatic hormone that counteracts the glucose-lowerin g action of insulin by stimulating glycogenolysis and gluconeogenesis. Glucagon is a ligand for a s pecific G-protein linked receptor whose signalling pathway controls cell proliferation. Two of the ot her peptides are secreted from gut endocrine cells and promote nutrient absorption through distin ct mechanisms. Finally, the fourth peptide is similar to glicentin, an active enteroglucagon. [provid ed 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

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Disease

- Atherosclerosis
- Calcinosis
- Cardiovascular Diseases
- Coronary Artery Disease
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Obesity

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