

GCG Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6515A

Product Information

Application WB, IHC-P, FC, E

Primary Accession P01275

Reactivity Human, Mouse

HostRabbitClonalityPolyclonalIsotypeRabbit IgGClone NamesRB19443Calculated MW20909Antigen Region25-54

Additional Information

Gene ID 2641

Other Names Glucagon, Glicentin, Glicentin-related polypeptide, GRPP, Oxyntomodulin,

OXM, OXY, Glucagon, Glucagon-like peptide 1, GLP-1, Incretin hormone, Glucagon-like peptide 1(7-37), GLP-1(7-37), Glucagon-like peptide 1(7-36),

GLP-1(7-36), Glucagon-like peptide 2, GLP-2, GCG

Target/Specificity This GCG antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 25-54 amino acids from the N-terminal

region of human GCG.

Dilution WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent

concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions GCG Antibody (N-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Name GCG (HGNC:4191)

Function [Glucagon]: Plays a key role in glucose metabolism and homeostasis.

Regulates blood glucose by increasing gluconeogenesis and decreasing glycolysis. A counterregulatory hormone of insulin, raises plasma glucose levels in response to insulin-induced hypoglycemia. Plays an important role in initiating and maintaining hyperglycemic conditions in diabetes.

Cellular Location

Secreted.

Tissue Location

[Glucagon]: Secreted in the A cells of the islets of Langerhans. [Glucagon-like peptide 2]: Secreted from enteroendocrine cells throughout the gastrointestinal tract. Also secreted in selected neurons in the brain [Oxyntomodulin]: Secreted from enteroendocrine cells throughout the gastrointestinal tract

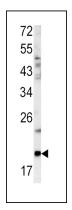
Background

GCG 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.

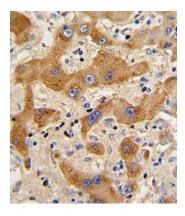
References

Jacobo, S.M., J. Pharmacol. Exp. Ther. 330 (1), 283-293 (2009) Root-Bernstein, R.J. Mol. Recognit. 22 (3), 177-187 (2009)

Images

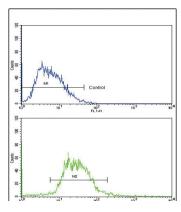


Western blot analysis of GCG antibody (N-term) (Cat.# AP6515a) in mouse bladder tissue lysates (35ug/lane). GCG (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with GCG Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Flow cytometric analysis of HepG2 cells using GCG Antibody (N-term)(bottom histogram) compared to a



negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.