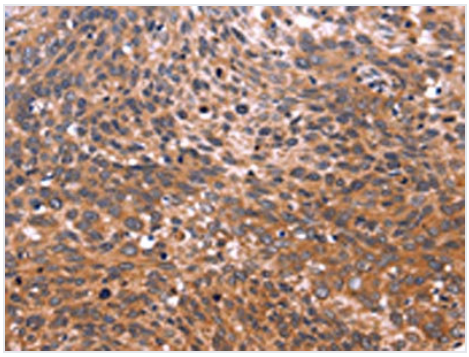
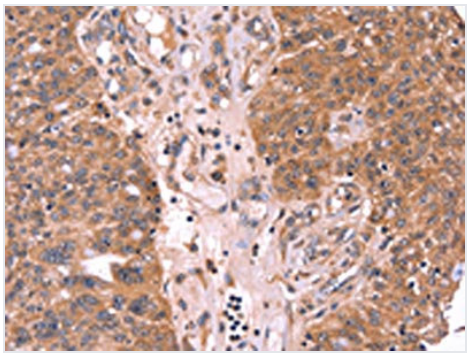
GCG Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GCG, Polyclonal Antibody
Full Product Name	GCG Antibody
Product Gene Name	anti-GCG antibody
Product Synonym Names	glucagon
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	20,909 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (162999379..163008914, complement). Location: 2q36-q37
OMIM	138030
3D Structure	ModBase 3D Structure for P01275
Immunogen	Synthetic peptide of human GCG
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-GCG antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GCG antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-GCG antibody	ELISA: 1:1000-1:2000 IHC: 1:25-1:100
Related Product Information for anti-GCG antibody	MBS7128913 is an antibody targeting GCG. Also known as GCG Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-GCG antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC)-Paraffin of anti-GCG antibody
The image on the left is immunohistochemistry of paraffin-embedded Human cervical cancer tissue using MBS7128913(GCG Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-GCG antibody
The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using MBS7128913(GCG Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GCG. It may not necessarily be applicable to this product.

NCBI GI #	4503945
NCBI GeneID	2641
NCBI Accession #	NP_002045.1
UniProt Primary Accession #	P01275
UniProt Secondary Accession #	Q53TP6; A6NN65
UniProt Related Accession #	P01275
GenBank Nucleotide #	NM_002054.4
NCBI Official Full Name	glucagon preproprotein
NCBI Official Synonym Full Names	glucagon
NCBI Official Symbol	GCG
NCBI Official Synonym Symbols	GLP1; GLP2; GRPP
UniProt Protein Name	Glucagon
UniProt Synonym Protein Names	Incretin hormone
Protein Family	Glucagon
UniProt Gene Name	GCG
UniProt Synonym Gene Names	GRPP; OXM; OXY; GLP-1; GLP-1(7-37); GLP-1(7-36); GLP-2
UniProt Entry Name	GLUC_HUMAN
NCBI Protein Information	glucagon; preproglucagon; glucagon-like peptide 1; glucagon-like peptide 2; glicentin-related polypeptide
NCBI Summary for GCG	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, Jul 2008]

UniProt Comments for GCG	GCG: 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. Glucagon release is stimulated by hypoglycemia and inhibited by hyperglycemia, insulin, and somatostatin. GLP-1 and GLP-2 are induced in response to nutrient ingestion. Glucagon is secreted in the A cells of the islets of Langerhans. GLP-1, GLP-2, oxyntomodulin and glicentin are secreted from enteroendocrine cells throughout the gastrointestinal tract. GLP1 and GLP2 are also secreted in selected neurons in the brain. Belongs to the glucagon family. Protein type: Hormone; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 2q36-q37 Cellular Component: extracellular space; endoplasmic reticulum lumen; extracellular region; plasma membrane Molecular Function: identical protein binding; protein binding; hormone activity; glucagon receptor binding; receptor binding Biological Process: positive regulation of protein binding; positive regulation of histone H3-K4 methylation; signal transduction; positive regulation of peptidyl-serine phosphorylation; G-protein signaling, coupled to cAMP nucleotide second messenger; response to starvation; G-protein coupled receptor protein signaling pathway; cell proliferation; cellular protein metabolic process; positive regulation of protein kinase activity; positive regulation of cAMP biosynthetic process; energy reserve metabolic process; feeding behavior; regulation of insulin secretion; negative regulation of apoptosis
Research Articles on GCG	**1.** we aim to integrate the available data on the metabolic and neuroprotective effects of GLP-1 mimetics in the central nervous system (CNS) with the complex crosstalk between T2D-AD
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