GCGR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GCGR, Polyclonal Antibody
Full Product Name	GCGR Antibody, Biotin conjugated
Product Gene Name	anti-GCGR antibody
Product Synonym Names	Glucagon receptorGL-R; GCGR
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: GCGR (MBS7048237) Biotin Conjugated Antibody: GCGR (MBS7048240)
Molecular Weight	54,009 Da
OMIM	U03469 mRNA
3D Structure	ModBase 3D Structure for P47871
Immunogen	Recombinant Human Glucagon receptor protein (26-136AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	Biotin
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-34638 / sc-34640 / sc-34641 / sc-66912
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GCGR antibody	ELISA (EIA)
Related Product Information for anti-GCGR antibody	G-protein coupled receptor for glucagon that plays a central role in the regulation of blood glucose levels and glucose homeostasis. Regulates the rate of hepatic glucose production by promoting glycogen hydrolysis and gluconeogenesis. Plays an important role in mediating the responses to fasting. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Promotes activation of adenylate cyclase. Besides, plays a role in signaling via a phosphatidylinositol-calcium second messenger system.
Other Notes	Small volumes of anti-GCGR 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.
Searchable Terms for GCGR purchase	MBS7048240 is an antibody targeting GCGR. Also known as GCGR Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4503947
NCBI GeneID	2642
NCBI Accession #	NP_000151.1
UniProt Primary Accession #	P47871
UniProt Secondary Accession #	Q2M3M5
UniProt Related Accession #	P47871
GenBank Nucleotide #	NM_000160.4
NCBI Official Full Name	glucagon receptor
NCBI Official Synonym Full Names	glucagon receptor
NCBI Official Symbol	GCGR
NCBI Official Synonym Symbols	GGR; GL-R
UniProt Protein Name	Glucagon receptor
Protein Family	Glucagon receptor
UniProt Gene Name	GCGR
UniProt Synonym Gene Names	GL-R
UniProt Entry Name	GLR_HUMAN
NCBI Protein Information	glucagon receptor
NCBI Summary for GCGR	The protein encoded by this gene is a glucagon receptor that is important in controlling blood glucose levels. Defects in this gene are a cause of non-insulin-dependent diabetes mellitus (NIDDM).[provided by RefSeq, Jan 2010]
UniProt Comments for GCGR	GCGR: This is a receptor for glucagon which plays a central role in regulating the level of blood glucose by controlling the rate of hepatic glucose production and insulin secretion. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase and also a phosphatidylinositol-calcium second messenger system. Belongs to the G-protein coupled receptor 2 family. Protein type: GPCR, family 2; Membrane protein, integral; Membrane protein, multi-pass; Receptor, GPCR Chromosomal Location of Human Ortholog: 17q25 Cellular Component: integral to membrane; integral to plasma membrane; plasma membrane Molecular Function: glucagon receptor activity; guanyl-nucleotide exchange factor activity Biological Process: G-protein signaling, coupled to cAMP nucleotide second messenger; generation of precursor metabolites and energy; glucose homeostasis; regulation of blood pressure; response to nutrient; response to starvation Disease: Diabetes Mellitus, Noninsulin-dependent
Research Articles on GCGR	**1.** 2.5 A crystal structure of human GCGR in complex with the antagonist MK-0893, which is found to bind to an allosteric site outside the seven transmembrane helical bundle in a position between TM6 and TM7 extending into the lipid bilayer

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