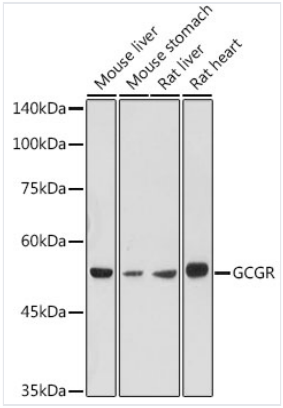
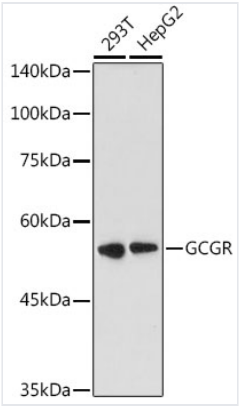
GCGR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GCGR, Polyclonal Antibody
Full Product Name	GCGR Rabbit pAb
Product Gene Name	anti-GCGR antibody
Product Synonym Names	GCGR; GGR; GL-R
Immunogen Sequence	MPPCQPQRPL LLLLLLLACQ PQVPSAQVMD FLFEKWKLYG DQCHHNLSLL PPPTELVCNR TFDKYSCWPD TPANTTANIS CPWYLPWHHK VQHRFVFKRC GPDGQWVRGP RGQPWRDASQ CQMDGEEIEV QKEVAKMYSS
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	54,009 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (79762010..79771889). Location: 17q25
OMIM	138033
3D Structure	ModBase 3D Structure for P47871
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-140 of human GCGR (NP_000151.1).
Cellular Location	Cell membrane, Multi-pass membrane protein
Positive Samples	293T, HepG2, Mouse liver, Mouse stomach, Rat liver, Rat heart
Product Categories/Family for anti-GCGR antibody	Signal Transduction; G protein signaling; G-Protein-Coupled Receptors(GPCR)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GCGR antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-GCGR antibody	WB: 1:500-1:2000 IF: 1:50-1:200
Related Product Information for anti-GCGR antibody	Background: 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).
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	MBS9142033 is an antibody targeting GCGR. Also known as GCGR Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-GCGR antibody
Western blot analysis of extracts of various cell lines, using GCGR antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 10s.



Western Blot (WB) of anti-GCGR antibody
Western blot analysis of extracts of various cell lines, using GCGR antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 180s.

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_000160.3
NCBI Official Full Name	glucagon receptor
NCBI Official Synonym Full Names	glucagon receptor
NCBI Official Symbol	GCGR
NCBI Official Synonym Symbols	GGR
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; GL-R
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: Receptor, GPCR; Membrane protein, integral; GPCR, family 2; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 17q25 Cellular Component: integral to plasma membrane; plasma membrane; integral to membrane; endosome Molecular Function: peptide hormone binding; guanyl-nucleotide exchange factor activity; glucagon receptor activity Biological Process: G-protein signaling, coupled to cAMP nucleotide second messenger; response to starvation; generation of precursor metabolites and energy; exocytosis; hormone-mediated signaling; regulation of blood pressure; energy reserve metabolic process; glucose homeostasis; G-protein signaling, adenylate cyclase activating pathway; response to nutrient; positive regulation of GTPase activity Disease: Diabetes Mellitus, Noninsulin-dependent
Research Articles on GCGR	**1.** GRA1 is a potent glucagon receptor antagonist with strong antihyperglycemic efficacy in preclinical models and prominent effects on hepatic gene-expression related to amino acid metabolism
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/gcgr/9142033