

Alternate Names	GGR, GL-R, MVAH
Isotype	IgG1
Conjugate	Unconjugated
Background	Human glucagon receptor (GCGR) is a 7-transmembrane G protein-coupled receptor (GPCR). GCGR is a class B GPCR. It plays a key role in glucose homeostasis and the pathophysiology of type 2 diabetes. GCGR is expressed in many tissues but most highly expressed in the liver and kidney including hepatocytes, renal nephron cells, adipocytes, and pancreatic islet α/β cells. Upon ligand binding a conformation change triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase to regulate blood glucose levels and glucose homeostasis. Mutations in GCGR are associated with higher risk of hypertension and obesity. Human GCGR protein has ~80% sequence homology with mouse GCGR.

Product Details

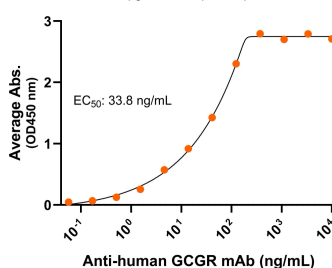
Specificity	Human
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	GCGR N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P47871
Formulation / Storage buffer	Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4 with 10% trehalose as protectant
Reconstitution	For best performance, we strongly recommend you reconstitute the lyophilized product with deionized water to a stock solution of 500 μ g/mL. Solubilize for 20 minutes at room temperature with occasional gentle mixing. Avoid shaking or vortexing. For 25 μ g product size: Reconstitute with 50 μ L sterile deionized water. For 100 μ g product size: Reconstitute with 200 μ L sterile deionized water.

Shipping	Frozen Ice Packs
Purification	Affinity Enrichment
Stability & Storage	-20°C
Verified Application	ELISA
Recommended Usage	ELISA: starting concentration 1 µg/mL.

Bioactive Data, Detection of Antigen by:

ELISA

Anti-human GCGR Monoclonal Antibody, ELISA
0.2 µg of GCGR protein per well



Immobilized human GCGR fragment at 2 µg/mL (100 µL/well) can bind mouse Anti-Human GCGR Monoclonal Antibody (Cat. No. CABh-25374) with half maximal effective concentration (EC50) range of 16.9-67.6 ng/mL (QC tested).

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	regulation of blood glucose levels and glucose homeostasis
Ligand / Receptor	Glucagon
Cell Type	hepatocytes, renal nephron cells, adipocytes, and pancreatic islet α/β cells
Molecular Family	G protein-coupled receptor
Gene ID	P47871