

DESCRIPTION

Target:	GCGR
Target aliases:	GGR, GL-R, MVAH
Fc isotype:	IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (Others untested)
Extracellular epitope:	Yes
Fc modifications:	C-terminal Avitag ¹ , disabled Fc- γ receptor binding ²
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	1 mg/ml

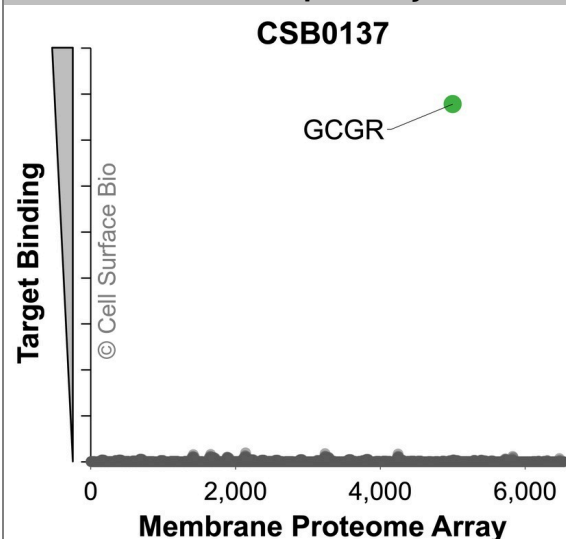
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- γ receptor binding site to minimize non-specific antibody binding.

GCGR TARGET INFORMATION

GCGR is a multi-pass membrane protein and G-protein coupled glucagon receptor. GCGR promotes glycogen hydrolysis and gluconeogenesis in order to control blood glucose levels. Variants of GCGR are associated with type 2 diabetes and Mahvash disease. (NCBI Gene: 2642, UniProtKB/Swiss-Prot: P47871) Other names: GGR, GL-R, MVAH

SHIPPING AND STORAGE

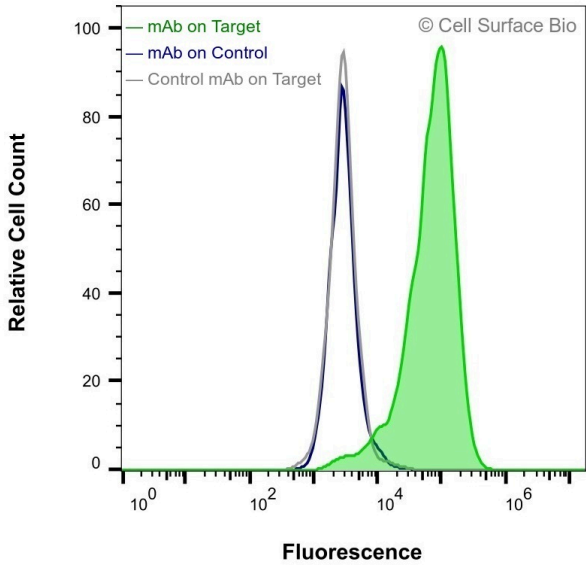
Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA
Membrane Proteome Specificity


The specificity of GCGR Monoclonal Antibody (CSB0137) was tested on the Membrane Proteome Array™ and shown to be specific for GCGR.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



HEK-293F cells transiently transfected with GCGR were stained with GCGR Monoclonal Antibody (CSB0137)(green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with GCGR Monoclonal Antibody (CSB0137)(blue).