
Alternate Names	Probable G-protein coupled receptor 142, PGR2, GPRg1b
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human G protein-coupled receptor 142, is a 7-transmembrane G protein-coupled receptor (GPCR) and member of the rhodopsin family. GPR142 is a Class A GPCR, primarily expressed in pancreatic islet β cells and gastrointestinal enteroendocrine cells. It functions as a nutrient sensor for aromatic amino acids such as tryptophan and phenylalanine is a tryptophan-activated G α q-coupled receptor with enriched expression in pancreatic islets. GPR142 therapeutics are an active area of research, mainly focused on type 2 diabetes and metabolic disease, because of the receptor's role in enhancing glucose-dependent insulin and incretin secretion.. Human GPR142 protein has ~85% sequence homology with mouse GPR142.

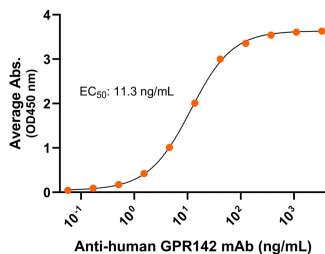
Product Details

Specificity	Human
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	GPR142 N-terminus extracellular domain, the exact sequence of the immunogen is proprietary.; UniProt # Q7Z601
Formulation / Storage buffer	0.22 μ m filtered PBS, pH 7.4
Shipping	Frozen Dry Ice
Purification	Affinity Enrichment
Stability & Storage	-80'C
Verified Application	ELISA
Recommended Usage	ELISA: starting concentration 1 μ g/mL.

Bioactive Data, Detection of Antigen by:

ELISA

Anti-human GPR142 Monoclonal Antibody, ELISA
 0.2µg of GPR142 protein per well



Immobilized human GPR142 fragment at 2 µg/mL (100 µL/well) can bind mouse Anti-Human GPR142 Monoclonal Antibody (Cat. No. CABh-25372) with half maximal effective concentration (EC50) range of 5.7-22.6 ng/mL (QC tested).

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	Appears to contribute to the control of glucose homeostasis by controlling the secretion of both insulin in the pancreas and other gastrointestinal hormones including glucagon
Ligand / Receptor	Unknown
Cell Type	Pancreatic islet and gastrointestinal enteroendocrine cells
Molecular Family	G protein-coupled receptor
Gene ID	Q7Z601