

Alternate Names	GLP-1-R, GLP-1R
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human glucagon-like peptide-1 receptor (GLP1R), is a 7-transmembrane G protein-coupled receptor (GPCR) and is a member of the glucagon receptor family of GPCRs. It is a Class B GPCR. GLP1R is highly expressed in beta cells of the pancreas and on neurons of the brain. By binding its ligand GLP-1, it is involved in the control of blood sugar level by enhancing insulin secretion. GLP1R agonists are used as therapeutics in the treatment of type 2 diabetes and obesity. Human GLP1R protein has ~98% and ~92% sequence homology with macaque and mouse GLP1R, respectively.

Product Details

Specificity	Detects human and mouse glucagon-like peptide-1 receptor/GLP1R transfectants but not irrelevant transfectants in flow cytometry.
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	GLP1R N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P43220
Formulation / Storage buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice
Purification	Affinity Enrichment
Stability & Storage	On receipt, store at -70 C or lower for long term storage. This product is stable at: -70 C for 6 months from date of receipt. Avoid repeated freeze-thaw cycles

Anti-GLP1R Monoclonal Antibody
Product Code: CABh-24034
Clone: 12D11-E10
For Research Use Only (RUO)

Verified Application

ELISA, Flow cytometry, SPR

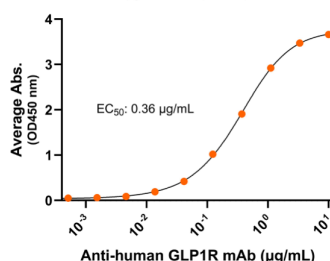
Recommended Usage

ELISA: starting concentration 1 µg/mL
 Flow cytometry: 0.8 µg/1E6 cells

Bioactive Data, Detection of Antigen by:

ELISA

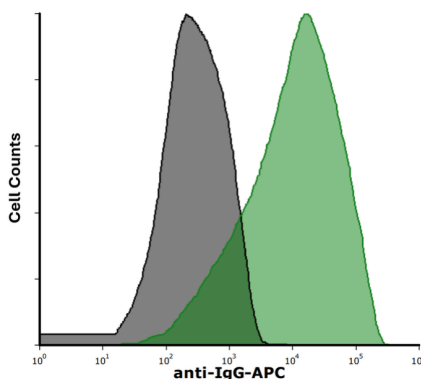
Anti-human GLP1R Monoclonal Antibody, ELISA
 0.2µg of GLP1R protein per well



Immobilized human GLP1R fragment at 2 µg/mL (100 µL/well) can bind Mouse Anti-GLP1R Monoclonal Antibody (Cat. No. CABh-24034) with half maximal effective concentration (EC50) range of 0.2-0.7 µg/mL (QC tested).

Flow Cytometry

mAb binding GLP1R expressing live cells
 (Flow Cytometry)



Detection of human GLP1R expressed on HEK293 cell surface transiently transfected with full-human GLP1R by Flow Cytometry. HEK293 cell line transfected with human GLP1R was stained with isotype control (black curve) or mouse Anti-GLP1R Monoclonal Antibody (Cat. No. CABh-24034) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.

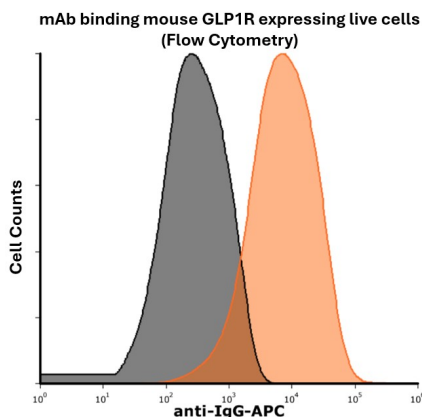
Anti-GLP1R Monoclonal Antibody

Product Code: CABh-24034

Clone: 12D11-E10

For Research Use Only (RUO)

Flow Cytometry



Detection of mouse GLP1R expressed on HEK293 cell surface transiently transfected with full-mouse GLP1R by Flow Cytometry. HEK293 cell line transfected with mouse GLP1R was stained with isotype control (black curve) or mouse Anti-GLP1R Monoclonal Antibody (Cat. No. CABh-24034) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	Control of blood sugar level by enhancing insulin secretion
Ligand / Receptor	GLP-1
Cell Type	beta cells of the pancreas and on neurons of the brain
Molecular Family	G protein-coupled receptor
Gene ID	P43220