



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

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<b>Alternate Names</b>	GLP-1-R, GLP-1R
<b>Isotype</b>	IgG2a
<b>Conjugate</b>	Unconjugated
<b>Background</b>	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.

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## Product Details

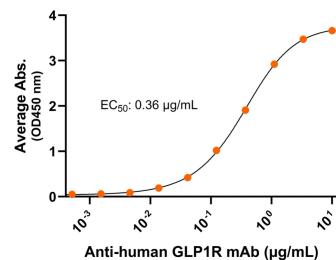
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<b>Specificity</b>	Human glucagon-like peptide-1 receptor/GLP1R
<b>Antibody Type</b>	Monoclonal antibody
<b>Host Species</b>	Mouse
<b>Immunogen</b>	GLP1R N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P43220
<b>Formulation / Storage buffer</b>	0.22µm filtered PBS, pH 7.4
<b>Shipping</b>	Frozen Dry Ice
<b>Purification</b>	Affinity Enrichment
<b>Stability &amp; Storage</b>	-80°C
<b>Verified Application</b>	ELISA, Flow cytometry, SPR
<b>Recommended Usage</b>	ELISA: starting concentration 1 µg/mL Flow cytometry: 0.2-0.8 µg/1E6 cells

## Bioactive Data, Detection of Antigen by:

### ELISA

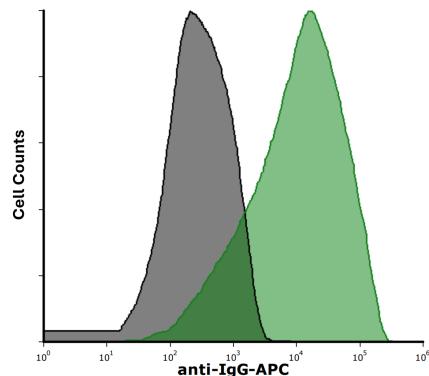
**Anti-human GLP1R Monoclonal Antibody, ELISA**  
0.2 $\mu$ g of GLP1R protein per well



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

### Flow Cytometry

**mAb binding GLP1R expressing live cells**  
(Flow Cytometry)



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



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## Antigen Details

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