



Anti-Human GIPR Monoclonal Antibody
Product Code: CABh-25329
Clone: 5B1-F11
For Research Use Only (RUO)

| | |
|------------------------|--|
| Alternate Names | GIP-R, PGQTL2, glucose-dependent insulinotropic polypeptide receptor |
| Isotype | IgG2a |
| Conjugate | Unconjugated |
| Background | Human gastric inhibitory polypeptide receptor (GIPR), also called GIP-R, PGQTL2, is a 7-transmembrane G protein-coupled receptor (GPCR) belonging to the Class B GPCR family. GIPR is highly expressed in beta-cells in the pancreas. Upon gastric inhibitory polypeptide (GIP) (also known as glucose-dependent insulinotropic polypeptide) ligand binding, activates Gs-cAMP signaling, leading to glucose-dependent insulin secretion. GIPR is an important therapeutic target in metabolic diseases including Type 2 diabetes and obesity. Human GIPR protein has >95% and ~80% sequence homology with macaque and mouse GIPR, respectively. |

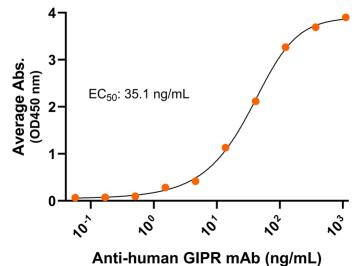
Product Details

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| Specificity | Detects human gastric inhibitory polypeptide receptor/GIPR transfectants but not irrelevant transfectants in flow cytometry. |
| Antibody Type | Monoclonal antibody |
| Host Species | Mouse |
| Immunogen | GIPR N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P48546 |
| Formulation / Storage buffer | 0.22µm filtered PBS, pH 7.4 |
| Shipping | Frozen Dry Ice |
| Purification | Affinity Enrichment |
| Stability & Storage | -80°C |
| Verified Application | ELISA, Flow cytometry |
| Recommended Usage | ELISA: starting concentration 1 µg/mL. Flow cytometry: 0.2-0.8 µg/1E6 cells |

Bioactive Data, Detection of Antigen by:

ELISA

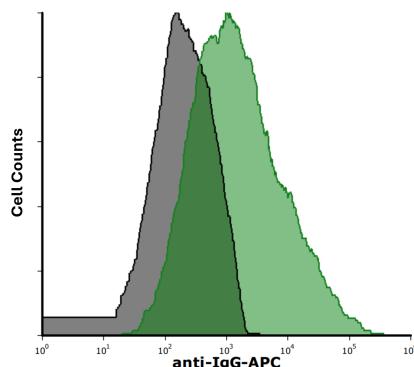
Anti-human GIPR Monoclonal Antibody, ELISA



Immobilized human GIPR fragment at 2 μ g/mL (100 μ L/well) can bind Mouse Anti-Human GIPR Monoclonal Antibody (Cat. No. CABH-25329) with half maximal effective concentration (EC50) range of 17.6-70.2 ng/mL (QC tested).

Flow Cytometry

mAb binding GIPR expressing live cells (Flow Cytometry)



Detection of GIPR in HEK293 human cell line transiently transfected with human GIPR by Flow Cytometry. HEK293 cell line transfected with human GIPR was stained with isotype control (black curve) or Mouse Anti-Human GIPR Monoclonal Antibody (Cat. No. CABh-25329) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.



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Antigen Details

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| Structure | 7-transmembrane protein, G protein-coupled receptor (GPCR) |
| Function | stimulates insulin release |
| Ligand / Receptor | gastric inhibitory polypeptide (GIP) |
| Cell Type | Beta-cells |
| Molecular Family | G protein-coupled receptor |
| Gene ID | P48546 |