# Human GIPR Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse $IgG_1$ Clone # 591853

Catalog Number: FAB8210G

100 µg

## DESCRIPTION

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|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human GIPR in direct ELISAs. Stains human GIPR transfected cells but not irrelevant transfectants. |
| **Source** | Monoclonal Mouse $IgG_1$ Clone # 591853 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | NS0 mouse myeloma cell line transfected with human GIPR.<br>Met1-Cys466<br>Accession # P48546 |
| **Conjugate** | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| **Formulation** | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Flow Cytometry** | 0.25-1 µg/$10^6$ cells | HEK293 human embryonic kidney cell line transfected with human GIPR and eGFP |

## PREPARATION AND STORAGE

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| **Shipping** | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | **Protect from light. Do not freeze.**<br>● 12 months from date of receipt, 2 to 8 °C as supplied. |

## BACKGROUND

GIPR is a 7-transmembrane receptor for GIP (glucose-dependent insulinotropic polypeptide or gastric inhibitory polypeptide). The 466 amino acid (aa) human GIPR contains 176 extracellular domain (ECD) aa that share 77% and 81% aa identity with mouse and rat GIPR ECD, respectively. A splice isoform of 430 aa has a deletion of aa 58-93 in the N-terminal ECD, while isoforms of 491 and 419 aa have alternate C-terminal cytoplasmic sequences. Engagement by GIP on pancreatic b-cells activates adenylate cyclase to regulate insulin compensation in the presence of high circulating glucose. GIPR is also expressed on adipocytes, osteoblasts and myelinating Schwann cell membranes.

## PRODUCT SPECIFIC NOTICES

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