Anti-Glucose-dependent insulinotropic Receptor [Gipg013] Standard Size Ab00424-6.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This full-length, chimeric rat antibody was made using the variable domain sequences of the original Mouse scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG1, Fc Silent™, Lambda
Clone Number: Gipg013
Alternative Name(s) of Target: GIPr
UniProt Accession Number of Target Protein: Q8TDV5
Published Application(s): Blocking, ELISA, IF
Published Species Reactivity: Dog, Rat, Human, Mouse
Immunogen: Human GIPr.
Specificity: The original has a Ki value of 7 nM and a Kd value of 6.8 nM for human GIPr.
Application Notes: This antibody binds to GIPr, a GPCR expressed on pancreatic beta-cells, where activation leads to the release of insulin. Endogeonous ligands for the receptor include oleylethanolamide and lysophosphatidylcholine. The antibody acts as a competitive antagonist. In rat islets, the antibody inhibits GIP-induced secretion of insulin by up to 81%.
Antibody First Published in: Ravn et al. Structural and pharmacological characterization of novel potent and selective monoclonal antibody antagonists of glucose-dependent insulinotropic polypeptide receptor. Journal of Biological Chemistry 2013; 288(27):19760-19772 PMID:23689510
Note on publication: Describes the generation of a monoclonal antibody against GIP and subsequent crystallisation as well as inhibition studies.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -

20ºC.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.