

## Anti-Glucose-dependent insulinotropic Receptor [Gipg013] Standard Size Ab00424-6.1

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, 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  $K_i$  value of 7 nM and a  $K_d$  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. Endogenous 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 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**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.