



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit Anti-Human GIP Antibody

Catalog No: 130-10094	Isotype: Rabbit IgG	Species: Human	Accession No: P09681
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Description

Gastric inhibitory polypeptide (GIP), also known as the glucose-dependent insulinotropic peptide is a member of the secretin family of hormones. This gene encodes an incretin hormone and belongs to the glucagon superfamily. The encoded protein is important in maintaining glucose homeostasis as it is a potent stimulator of insulin secretion from pancreatic beta-cells following food ingestion and nutrient absorption. This gene stimulates insulin secretion via its G protein-coupled receptor activation of adenylyl cyclase and other signal transduction pathways. GIP is also thought to have significant effects on fatty acid metabolism through stimulation of lipoprotein lipase activity in adipocytes.

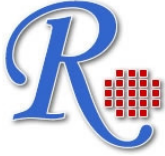
Applications

Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1 : 16,000
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was synthetic peptide derived from human GIP. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum followed by Protein A/G affinity chromatography.

Specificity

The antibody binds to human GIP. Cross reactivity with mouse or rat GIP was not tested.

Reconstitution

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1x PBS to a final concentration of 1 mg/ml.

Storage

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for at least 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Related products

RayBio® Gastric Inhibitory Peptide (GIP) EIA Kit for Serum, Plasma, Culture Supernatant and Cell Lysates (cat# EIA-GIP-1)

Reference

1. Meier JJ, Nauck MA. (2005). "Glucagon-like peptide 1(GLP-1) in biology and pathology". *Diabetes Metab. Res. Rev.* **21** (2): 91–117.
2. Efendic S, Portwood N (2004). "Overview of incretin hormones". *Horm. Metab. Res.* **36** (11–12): 742–6.
3. Thorens B (1995). "Glucagon-like peptide-1 and control of insulin secretion". *Diabète & métabolisme* **21** (5): 311–8.

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