

Product Specification Sheet

**Gastric Inhibitory Polypeptide precursor (GIP) Antibodies**

Cat. # GIP71-P	Human GIP Control Peptide # 1	<b>SIZE:</b> 100 ug
Cat. # GIP71-A	Rabbit Anti- Human GIP Ig G # 1 (aff pure)	<b>SIZE:</b> 100 ug

**Glucagon** is a member of a multigene family comprising of Secretin, Vasoactive Intestinal Peptide (VIP), Gastric Inhibitory Peptide (GIP) and others like Glicentin and Oxyntomodulin (OXM), which differs from glucagon by C-terminal octapeptide. The glucagon precursor contains at least 3 intervening sequences that divide the protein-coding portion into 4 regions corresponding to the signal peptide and part of the N-terminal peptide, the remainder of the N-terminal peptide and glucagon, glucagon-like peptide-1 (GLP1), and GLP2

**GIP**, Gastric inhibitory polypeptide, also known as glucose-dependent insulinotropic polypeptide (GIP), is a 42-amino acid hormone (chr 17q21.3) that stimulates insulin secretion in the presence of glucose. GIP is derived by proteolytic processing of a 153-residue precursor, preproGIP; it is a member of a family of structurally related hormones that includes secretin, glucagon, vasoactive intestinal peptide, and growth hormone-releasing factor.

**Source of Antigen and Antibodies**

<b>Antigen</b>	10aa peptide of Human GIP (ref. 1); <b>Designated (GIP71-P or control peptide)</b> . Epitope location - Middle region, Cytoplasmic
<b>Antibody host/type</b>	Rabbit, Polyclonal unpurified serum (Cat # GIP71-S and affinity pure IgG (Cat # GIP71-A), purified over antigen-Agarose
<b>2-Ab</b>	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).
<b>Negative Control Ab</b>	Non-immune rabbit IgG (Cat # 20009-1) to be used as -ve control for ELISA, WB, IHC etc.

**Form & Storage of Antibodies/Peptide Control**

**Affinity pure IgG**

100 µg/100µl solution lyophilized powder

Supplied in **Buffer:** PBS+0.1% BSA

**Reconstitute powder** in PBS at 1mg/ml

**Control/blocking peptide**

100 ug/100 µl solution lyophilized powder

Supplied in **Buffer:** PBS pH 7.5

**Reconstitute powder** in PBS at 1 mg/ml

**Storage**

**Short-term:** unopened, undiluted vials for less than a week at 4oC.

**Long-term:** at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 6-12 months at -20oC or below.

**Shipping:** 4oC for solutions and room temp for powder.

**Recommended Usage**

**Western Blotting** (1-10 ug/ml for affinity pure IgG using Chemiluminescence technique.

**ELISA:** Control peptide can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (and 0.5-1 ug/ml for affinity pure).

**Histochemistry:** not tested. We recommend the use of affinity purified antibody at 2-10 ug/ml.

**Specificity & Cross-reactivity**

The 10 AA Human GIP71-P control peptide is 90% conserved in mouse, rat and pig GIP. No significant sequence homology is detected with other proteins. Actual cross-reactivity of antibodies in various species has not been studied. The GIP71-P control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity (see detailed protocol at the web site).

**General References:**

(1) Meier JJ et al, Regulatory peptides (2003), 95-100; Inagaki N et al, Mol Endocrinology (1989) 1014-21.

\*This product is for In vitro research use only.

**Related material available from ADI**

Antibodies for Glucagon, GLP1 & 2, OXM, Secretin and GRF.

GIP71-A- P . 71213J