Anti GIP (Human) Serum
Cat. No. YII-Y101-EX Lot No. 51790424

Description: This antiserum, which recognizes the central portion of human GIP (1-42), was raised in a rabbit by immunization with a porcine thyroglobulin (pTG) conjugate of synthetic GIP (human) peptide . The product vial contains 50 µL of the titled antiserum obtained by lyophilizing its 0.001 M phosphate buffer (pH 7.0, 0.5mL) solution . It can be used for immunoassay, immunohistochemistry or any other immunoreactions with GIP (human).

Immunogen: Synthetic GIP (human)-pTG conjugate **Host:** Rabbit

Amino Acid Sequence of GIP (human)[1]**:**
YAEGTFISDY SIAMDIHKQQ DFVNWLLAQK GKKNDWKHNI TQ

Product Form: Lyophilized unpurified serum **Size:** 50 µL

Reconstitution: Reconstitute the product with 0.5mL of 0.01M PBS (pH 7.0) to make a 10 fold diluted stock solution. If it is stored in a refrigerator, add moderate antiseptic to the solution (e.g. NaN3 0.1%).

Storage: The product will be stable for over one year if it be stored at -20°C to -80°C until opened. Upon recon- stitution, the antiserum solution must be stored at 2°C to 8°C and used within one month. Repeated freezing- thawing should be avoided.

Suggested Working Dilution Range: 1:3,200 (final dilution ~1:16,000) for radioimmunoassay[2]; 1:500-1,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay)**:** GIP (human) 100%, GIP (31-42)(human) 0.9%, GIP (1-13) (human) 0%, GIP (15-30)-NH2 (human) 25%, GIP (1-30)-NH2 (human) 110%, GIP (porcine) 1%, GIP (1-30)-OH (porcine) 1%, secretin (pocine) 0%, VIP (porcine) 0%,PHI (poricne) 0%, GLP-1 (7-36) (human) 0%, GLP-1 (7-36)-NH2 (human) 0%, insulin (human) 0%, glucagon 0%[2,3,4].

Positive Control (immunohistochemistry)**:** Rat duodenum

Species Tested: Rat

REFERENCES:
1) A.J. Moody, L. Thim, I. Valerde, The isolation and sequencing of human gastric inhibitory peptide (GIP). FEBS Letter 172 (2):142-148, 1984
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3) N. Shiga, Y. Nishijima et al., The response of gastric inhibitory polypeptide (GIP) to oral glucose in chronic pancreatitis: a study by radio- immunoassay for human GIP. Biomedical Research 15:135-143, 1994
4) M. Onoda, N. Yanaihara et al., Basic and clinical studies on the measurement of plasma gastric inhibitory polypeptide (GIP) using radio- immunoassay (RIA). Hormone and Clinical 42: 127-132, 1994

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