

Anti GIP (Human) Serum

Cat. No. Y101 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 μ L 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⁾:

Y A E G T F I S D Y S I A M D K I R Q Q D F V N W L L A Q K G K K N D W K H N L T Q

Product Form: Lyophilized unpurified serum

Size: 50 μ L

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 reconstitution, 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 radioimmunoassay²⁾; 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 (porcine) 0%, VIP (porcine) 0%, PHI (porcine) 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
- 2) M. Emura, N. Yanaihara et al., Establishment and application of radioimmunoassay for human GIP (Glucose dependent insulinotropic polypeptide). Proceedings of 16th Gut Hormone Conference, Japan Society of Gut Hormones (Ed.) 13:138-144, 1994
- 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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