Anti Pancreatic Polypeptide (PP) (18-36) (Human) Serum

Cat. No. Y080 Lot No. 021271031

Description: This antiserum was raised in a rabbit by immunization with a porcine thyroglobulin (pTG) conjugate of synthetic pancreatic polypeptide (PP) (18-36) (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 immunoreaction with PP (human).

Immunogen: Synthetic PP (18-36)(human)-pTG conjugate **Host:** Rabbit

Amino Acid Sequence of PP (18-36) (human)[1]:

18 36

APLEPVYPGD NATPEQMAQY AADLRRYINM LTRPRY-NH_2

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. NaN_3 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: 1:1,000-8,000 (final dilution ~1:56,000) for radioimmunoassay; 1: 1,000- 4,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay): PP (18-36) (human) 100%, PP (human) 100%, NPY (human) 0%, PYY (human) 0%[2]

Positive Control (immunohistochemistry): Rat pancreas

Species Tested: Human, rat[3,4]

REFERENCES:

1) E. Boel, T.W. Schwartz et al., A cDNA encoding a small common precursor for human pancreatic polypeptide and pancreatic icosapeptide. EMBO Journal 3: 909-920, 1984

2) K. Nagai, Y. Yamazaki et al., Effects of intravenous secretin on plasma pancreatic polypeptide and activity in man. Biomedical Research 9 (suppl 1): 24-9, 1988

3) K. Nagai, K. Iguchi and N. Yanaihara, Plasma lopase, C-peptide reactivity and human pancreatic polypeptide responses after ingestion of elemental diet in patients with chronic pancreatitis. Gastroenterogia Japonica 28: 401-405, 1993

4) K. Nagai, K. Iguchi and N. Yanaihara, Plasma human pancreatic polypeptide, C-peptide reactivity, and gastric inhibitory polypeptide responses to oral elemental diet in patients with chronic pancreatitis and those having undergone gastrectomy. In: Gastrointestinal Function, Regulation and Disturbances, Excerpta Medica, Tokyo 14: 61-69, 1996

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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

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