## Anti PACAP38 (22-38) (Human) Serum

Cat. No. Y041

**Description:** This antiserum was raised in a rabbit by immunization with a porcine thyroglobulin (pTG) conjugate of synthetic PACAP38 (22-38) (human) peptide. The product vial contains 50  $\mu$ 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, immuno - histochemistry or any other immunoreaction with the C-terminal portion of PACAP38 (human).

Immunogen: Synthetic PACAP38 (22-38) (human)-pTG conjugate Host: Rabbit

Amino Acid Sequence of PACAP38 (22-38) (human)<sup>1)</sup>:

HSDGIFTDSY SRYRKQMAVK KYLAAVLGKR YKQRVKNK-NH2

**Product Form:** Lyophilized unpurified serum

Size:  $50 \mu L$ 

**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. NaN<sub>3</sub> 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 freezingthawing should be avoided.

Suggested Working Dilution Range: 1:5,000-20,000 (final dilution ~1:140,000) for radioimmunoassay; 1: 500-4,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay): PACAP38 (22-38) (human) 100%, PACAP38 (human) 30%, PACAP 38 (5-38) (human) 30%, PACAP38 (10-38) (human) 17.2%, PACAP38 (16-38) (human) 52%, PACAP27 (human) < 0.1%, glucagon 0%, VIP (porcine) 0%, PHI (human) 0%, secretin (human) 0%

Positive Control (immunohistochemistry): Rat colon

Species Tested: Rat

## REFERENCES:

1) A. Miyata, A. Arimura et al., Isolation of a novel 38 residue-hypothalamic polypeptide which stimulates adenylate cyclase in pituitary cells. Biochemistry Biophysics Research Communications 164:567-574, 1989

## FOR RESEARCH LABORATORY USE ONLY

DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

Yanaihara Institute Inc.

2480-1 Awakura, Fujinomiya, Shizuoka, 418-0011 Japan FAX:+81-544-22-2770 TEL: +81-544-22-2771