## Anti PACAP38 (1-15) (Human) Serum

Cat. No. Y042

Lot No. 085171206

**Description:** This antiserum was raised in a rabbit by immunization with a porcine thyroglobulin (pTG) conjugate of synthetic PACAP (1-15) (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, immunohistochemistry or any other immunoreaction with the N-terminal portion of PACAP38 (human).

Immunogen: Synthetic PACAP38 (1-15) (human)-pTG conjugate Host: Rabbit

Amino Acid Sequence of PACAP38 (1-15) (human)11:

15

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. 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:** 1:5,000-20,000 (final dilution ~1:140,000) for radioimmunoassay; 1: 500-3,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

**Specificity** (based on radioimmunoassay): PACAP38 (1-15) (human) 100%, PACAP27 (human) 30%, PACAP38 (human) 6.7%, VIP (porcine) 0%, PHI (rat) 0%, PHI (human) 0%, secretin (human) 0%, helodermin 0%

Positive Control (immunohistochemistry): Rat colon

**Species Tested:** Rat<sup>2)</sup>, ginseng radix<sup>3)</sup>

## 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 Communication 164:567-574, 1989
- 2) N. Yanaihara, T. Kanno et al., VIP- and PACAP-induced salivary chromogranin A secretion in the isolated perfused submandibular gland of rats. Annals of the New York Academy of Sciences, J. Fahrenkrug and S.I. Said (Ed), 921:218-225, 2000
- 3) N. Takashima, N. Yanaihara et al., Characterization of a PACAP-like immunoreactive component in red ginseng root. Annals of the New York Academy of Sciences, W.G. Forsmann (Ed) 865:561-565,1998

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SCETI K.K.

DF Kasumigaseki Place, 3-6-7 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013 Japan

URL: http://www.sceti.co.jp/export/e-mail: exp-pet@sceti.co.jp

<Manufacturer>

Yanaihara Institute Inc.

2480-1 Awakura, Fujinomiya-shi, Shizuoka 418-0011 JAPAN