

## **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)<sup>1)</sup>:**

1 15  
HSDGIFTDSY SRYRKQMAVK KYLAAVLGKR YKQRVKNK-NH<sub>2</sub>

**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. Na<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 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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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

  
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