Description: This antiserum was raised in a rabbit by immunization with a carrier free synthetic PACAP38 (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 PACAP.

Immunogen: Synthetic PACAP38 (human), carrier free

Host: Rabbit

Amino Acid Sequence of PACAP38 (human)¹⁾:

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 freezingthawing should be avoided.

Suggested Working Dilution Range: 1:1,000-2,000 (final dilution ~1:14,000) for radioimmunoassay: 1: 200-1,000 for immunohistochemistry (frozen or paraffin sections)²⁾. Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay): PACAP38 (human) 100%, PACAP27 (human) 0%, VIP 0%, PHI (rat) 0%, PHI (human) 0%, secretin 0%, helodermin 0%, CCK-8 0%, met-enkephalin 0%, leu-enkaphalin 0%, dynorphin 0%, oxytocin 0%, vasopressin 0%

Positive Control (immunohistochemistry): Rat colon

Species Tested: Rat, ginseng radix³⁾

REFERENCES:

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- 2) S. Kimura, Y. Ohshige et al., Localization of pituitary adenylate cyclase-activating polypeptide (PACAP) in the hypothalamus-pituitary system in rats: light and electron microscopic immunocytochemical studies. Journal of Neuroendocrinology 6: 503-507, 1994
- 3) T. Ohishi, N. Yanaihara et al., Immunoreactivities of neuropeptides in plants (Ginseng Radix and Panacis Japonici Rhizoma). Proceedings of 18th Gut Hormone Conference, Japan Society of Gut Hormones (Ed) 13:285-291, 1995

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DO NOT LISE 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