Anti PACAP38 (Human) Serum

Cat. No. Y040 **Lot No. 083171013**

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

Immunogen: Synthetic PACAP38 (human), carrier free **Host:** Rabbit

Amino Acid Sequence of PACAP38 (human)[1]:

HSDGIFTDSY SRYRKQMAVK KYLAAVLGKR YKQRVKNK-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: 1:1,000-2,000 (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 radix[3]

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

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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