

Anti Somatostatin Serum

Cat. No. YP020 Lot No. 272140612

Description: This antiserum was raised in a rabbit by immunization with a *Ascaris* protein conjugate of synthetic somatostatin-14. The product vial contains 50 μ 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 somatostatin.

Immunogen: Synthetic somatostatin-14 (rat)- *Ascaris* protein conjugate

Host: Rabbit

Amino Acid Sequence of Somatostatin-14 (rat)¹⁾:



Product Form: Lyophilized unpurified serum

Size: 50 μ L

Reconstitution: Reconstitute the product with 0.5mL of 0.01M PBS (pH7.0) 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: 1:2,000-10,000 (final dilution ~60,000) for radioimmunoassay; 1: 500-4,000 for immunohistochemistry (frozen section). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay)²⁾: Somatostatin-14 100%, [Arg¹] somatostatin-14 (human, rat) 20%, [Ser³, Ser¹⁴] somatostatin-14 < 0.001%

Positive Control (immunohistochemistry): Rat hypothalamus^{3,4)}

REFERENCES:

- 1) M.A. Tavianini, T.E. Hayes et al., Isolation, characterization, and DNA sequence of the rat somatostatin gene. *Journal of Biological Chemistry* 259:11798-11802, 1984
- 2) N. Naoki, N. Yanaihara, et al., Comparison of PACAP27 with GLP-1 and GIP related peptides on somatostatin and gastrin secretion from isolated perfused rat stomach. *Biomedical Research* 15 (Supplement 2): 241-245, 1994
- 3) Y. Takatsu, H. Matsumoto et al., Distribution of galanin-like peptide in th rat brain. *Endocrinology* 142: 1626-1634, 2001
- 4) N. Iijima, Y. Matsumoto et al., A novel function of prolactin-releasing peptide in the control of growth hormone via secretion of somatostatin from the hypothalamus. *Endocrinology* 142: 3239-3243

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