



Anti Substance P Serum

Cat. No. YII-Y150-EX Lot No. 240471110

Description: This antiserum was raised in a rabbit by immunization with a bovine serum albumin (BSA) conjugate of synthetic substance P 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 substance P.

Immunogen: Synthetic substance P-BSA conjugate **Host:** Rabbit

Amino Acid Sequence of Substance P¹⁾: RPKPQFFGLM-NH₂

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. 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: 1:8,500 (final dilution~1:60,000) for radioimmunoassay; 1:1,000-4,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay): substance P 100%, substance P (6-10) 20%, substance P (4-10) 0.5%, neurokinin A 1.0%

Positive Control (immunohistochemistry): Rat colon

Species Tested: Human, dog, quail, guinea pig, rat^{2,3,4,5,6)}

REFERENCES:

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- 3) Y. Tsutsumi, N. Yanaihara et al., Histochemical studies of metaplastic lesions in the human gallbladder. *Archives of Pathology and Laboratory Medicine* 108: 917-921, 1984
- 4) T. Uchida, N. Yanaihara et al., Occurrence and projections of three subclasses of met-enkephalin-arg⁶-gly⁷-leu⁸ neurons in the guinea-pig duodenum: immunoelectron microscopic study on the co-storage of met-enkephalin-arg⁶-gly⁷-leu⁸ with substance P or PHI (1-15). *Biomedical Research* 6: 415-422, 1985
- 5) Y. Tsutsumi, Immunohistochemical analysis of neuroendocrine substances in nonneoplastic lung and in neuroendocrine lung tumors. In: *Endocrine Pathology Update* (Eds. J. Lechago and T. Kameya) Field & Wood Philadelphia 1: 189-213, 1990
- 6) M. Yazawa, N. Yanaihara et al., Immunohistochemical demonstrations of peptide histidine methionine- and substance P-immunoreactive nerves in endoscopically biopsied rectal mucosa. *The Autonomic Nervous System* 27: 130-136, 1990

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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

