Description: This antiserum was raised in a rabbit by immunization with a bovine serum albumin (BSA) conjugate of synthetic GRP (porcine) peptide¹⁾. 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. The antiserum recognizes the N-terminal to central portion of the porcine GRP sequence when used in a low diluted solution and the C-terminal portion in a high diluted solution²⁾. It can be used for immunoassay, immunohistochemistry or any other immunoreaction with GRP.

Immunogen: Synthetic GRP (porcine)-BSA conjugate Host: Rabbit

Amino Acid Sequence of GRP (Porcine)11: APVSVGGGTV LAKMYPRGNH WAVGHLM-NH2

Product Form: Lyophilized unpurified serum Size: 50μ 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 freezing-thawing should be avoided.

Suggested Working Dilution Range: 1:40,000 (final dilution ~1:280,000) for radioimmunoassay²⁾; 1:1,000 -12,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay): GRP (porcine) 100%, GRP (14-27) (porcine) 261%, GRP (1-13) (porcine) 0%, bombesin 241%, substance $P < 0.001\%^2$.

Positive Control (immunohistochemistry): Rat fundus

Species Tested: Rat, Human, Chicken, Porcine, Frog, Bovine, Tuna fish²⁻⁴⁾

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- 3) T. Iwanaga, N. Yanaihara et al., Distribution of gastrin-releasing peptide (GRP)-like immunoreactivity in the gut and lung. An immuno-histochemical study, Proceedings of 2nd Gut Hormone Conference, Japan Society of Gut Hormones (Ed.) 2:267-276, 1982
- 4) T. Iwanaga, T. Fujita, N Yanaihara, Occurrence of gastrin-releasing peptide (GRP)-like and vasoactive intestinal polypeptide (VIP)-like immunoreactivities in cholinergic neurons in the digestive tract of the rat. Biomedical Research 4 (Suppl):167-172, 1983

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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

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