



## Anti GRP (Porcine) Serum

Cat. No. YII-Y160-EX      Lot No. 690270927

**Description:** This antiserum was raised in a rabbit by immunization with a bovine serum albumin (BSA) conjugate of synthetic GRP (porcine) peptide<sup>1)</sup>. 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. 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 solution<sup>2)</sup>. 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)**<sup>1)</sup>: APVSVGGTV LAKMYPRGNH WAVGHLM-NH<sub>2</sub>

**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<sub>3</sub> 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 radioimmunoassay<sup>2)</sup>; 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%<sup>2)</sup>.

**Positive Control** (immunohistochemistry): Rat fundus

**Species Tested:** Rat, Human, Chicken, Porcine, Frog, Bovine, Tuna fish<sup>2~4)</sup>

### REFERENCES:

- 1) T.J. McDonald, G. Nilsson, A gastrin-releasing peptide from the porcine non-antral gastric tissue. *Gut* 19:767-774, 1978
- 2) N. Yanaihara, C. Yanaihara et al., Immunoreactive GRP. *Peptides* 2 (Suppl 2):185-191, 1981
- 3) T. Iwanaga, N. Yanaihara et al., Distribution of gastrin-releasing peptide (GRP)-like immunoreactivity in the gut and lung. An immunohistochemical 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

### FOR RESEARCH LABORATORY USE ONLY

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