

## Anti Bombesin Serum

Cat. No. Y170

Lot No. 330271108

**Description:** This antiserum was raised in a guinea pig by immunization with a bovine serum albumin (BSA) conjugate of synthetic bombesin analogue, N<sup>α</sup>-glycyl-[Gln<sup>1</sup>]-bombesin<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. It can be used for immunoassay, immunohistochemistry or any other immunoreaction with bombesin.

**Immunogen:** Synthetic N<sup>α</sup>-glycyl-[Gln<sup>1</sup>]-bombesin-BSA conjugate

**Host:** Guinea pig

**Amino Acid Sequence of Bombesin<sup>2)</sup>:** pEQRLGNQWAV GHLM-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:** 1:1,000 (final dilution ~1:7,000) for radioimmunoassay; 1:200-1,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

**Specificity** (based on radioimmunoassay): Bombesin 100%, N<sup>α</sup>-glycyl-[Gln<sup>1</sup>]-bombesin 100%, N<sup>α</sup>-tyrosyl-[Gln<sup>1</sup>]-bombesin 100%, des-14-amide-bombesin 25%, bombesin (4-14) 90%, bombesin (6-14) 90%, bombesin (8-14) 0%, ranatensin C 2.6%, GRP (porcine) < 0.001%<sup>1)</sup>.

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

**Species Tested:** Guinea pig, dog, porcine, monkey

### REFERENCES:

- 1) C. Yanaihara, N. Yanaihara et al., Bombesin-like immunoreactivity in mammalian tissues. *Biomedical Research* 1: 96-100, 1980
- 2) A. Anastasi, V. Erspamer and M. Bucci, Isolation and structure of bombesin and alytesin of the European amphibians, Bombina and Alytes. *Experientia*, 27: 166-167, 1971

**FOR RESEARCH LABORATORY USE ONLY**  
DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

  
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