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^{α}-glycyl -[Gln^{1}]-bombesin[1]. 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^{α}-glycyl-[Gln^{1}]-bombesin-BSA conjugate **Host:** Guinea pig

Amino Acid Sequence of Bombesin[2]: pEQRLGNQWAV GHLM-NH_2

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_3 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^{α}-glycyl-[Gln^{1}]-bombesin 100%, N^{α}-tyrosyl-[Gln^{1}]-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%[1].

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. Expreimentia, 27: 166-167, 1971

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