Anti LH-RH Serum

Cat. No. YP010 **Lot No. 51390502**

Description: This antiserum was raised in a rabbit by immunization with a human serum albumin (HSA) conjugate of synthetic [Glu^1]-LH-RH. The product vial contains 50 μL of the titled compound 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 LH-RH.

Immunogen: Synthetic [Glu^1]-LH-RH (human)-HSA conjugate **Host:** Rabbit

Amino Acid Sequence of LH-RH[1,2,3]**:** pEHWSYGLRPG-NH_2

Product Form: Lyophilized unpurified serum **Size:** 50 μL

Reconstitution: Reconstitute the product with 0.5mL of 0.01M PBS (pH7.0) 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: 1:2,000-10,000 (final dilution ~1:60,000) for radioimmunoassay; 1: 500-4,000 for immunohistochemistry (frozen section). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay)[4]**:** LH-RH 100%, LH-RH (4-10) 100%, LH-RH-OH 0.001%, LH-RH (2-8) < 0.001%, somatostatin 0%, neurotensin 0%, substance P 0%, TRH 0%, oxytocin 0%, vasopressin 0%, angiotensin-I 0%

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

REFERENCES:

1) H. Matsuo, Y. Baba et al., Structure of the porcine LH- and FSH-releasing hormone. I. The proposed amino acid sequence. Biochemical and Biophysical Research Communications 43:1334-1339, 1971

2) Y. Baba, H. Matsuo, and A.V. Schally, Structure of the porcine LH- and FSH-releasing hormone. II. Confirmation of the proposed structure by conventional sequential analyses. Biochemical and Biophysical Research Communications 44:459-463, 1971

3) J.P. Adelman, A.J. Mason et al., Isolation of the gene and hypothalamic cDNA for the common precursor of gonadotropin-releasing hormone and prolactin releasing-inhibiting factor in human and rat. Proceedings of National Academy of Sciences U.S.A. 83:179-183, 1986

4) M Takahashi, E. Hashimura et al., Preovulatory changes in Luteinizing hormone releasing hormone concentrations in peripheral plsma in constant estrous rats at induced ovulation. Endocrinologica Japonica 29:113-120,1982

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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

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