

Anti α -Endorphin Serum

Cat. No. Y300

Lot No. 340471221

Description: This antiserum was raised in a rabbit by immunization with a bovine serum albumin conjugate (BSA) of α -Endorphin peptide. The product vial contains 50 μ L 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 α -Endorphin.

Immunogen: α -Endorphin-BSA conjugate

Host: Rabbit

Amino Acid Sequence of α -Endorphin¹⁾: YGGFMTSEKS QTPLVT

Product Form: Lyophilized unpurified serum

Size: 50 μ 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: 1:2,000 (final dilution ~1:14,000) for radioimmunoassay²⁾; 1:200-1,000 for immunohistochemistry (frozen section). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay): α -Endorphin 100%, β -endorphin 7%, γ -endorphin 34%, met-enkephalin 0%, leu-enkephalin 0%.

Positive Control (immunohistochemistry): Rat pituitary gland

Species Tested: Rat

REFERENCES:

1) S. Nakanishi, A. Inoue et al., Nature, 278: 423-427, 1979

2) Y. Ibata, N. Yanaihara, et al., Dopamine and endorphin are contained in different neurons of the arcuate nucleus of hypothalamus as revealed by combined fluorescence histochemistry and immunohistochemistry, Neuroscience Letters, 17:185-189, 1980

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