

Anti PTHrP (1-34)-NH₂ Serum

Cat. No. Y201 Lot No. 0931120221

Description: This antiserum was raised in a rabbit by immunization with a carrier free PTHrP (1-34)-NH₂ peptide. The product vial contains 50 μ L of the titled antiserum, which was obtained by lyophilizing its 0.001M phosphate buffer (pH 7.0, 0.5mL) solution. It can be used for immunoassay, immunohistochemistry or any other immunoreaction with PTHrP.

Immunogen: PTHrP (1-34)-NH₂ (human), carrier free

Host: Rabbit

Amino Acid Sequence of PTHrP (1-34)-NH₂ (human)¹⁾

1 34
AVSEHQLLHD KGKSIQDLRR RFFLHHLIAE IHTA-NH₂

The amino acid sequences of N-terminal (1-34) of PTHrPs in mammals are 100% conserved.

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: 1:1,000-3,000 (final dilution ~1:21,000) for radioimmunoassay; 1:500-1,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay): PTHrP (1-34)NH₂ 100%, PTHrP (15-34)NH₂ < 0.05%, PTHrP (1-19) 0%, PTHrP (7-34)NH₂ 25%

Positive Control (immunohistochemistry): Rat mammary gland (lactation period) or mammary tumor.


Species Tested: Rat, dog, mouse²⁻⁴⁾.

REFERENCES:

- 1) L.J. Suva, G.A. Winslow et al., A parathyroid hormone-related protein implicated in malignant hypercalcemia: cloning and expression. *Science* 237: 893-898, 1987
- 2) M. Tokunaga, Y. Ueta et al., PTH-related peptide-like immunoreactivity in the median eminence, paracentricular and supraoptic nuclei in colchicine-treated rats. *Brain Research* 774:216-220, 1997
- 3) A. Konno, A. Sukegawa et al., Immunohistochemistry for parathyroid hormone-related protein (PTHrP) in benign and malignant mammary mixed tumors of dogs with and without hypercalcemia. *Japan Journal of Veterinary Research* 47:155-162, 2000
- 4) N. Amizuka, D. Davidson et al., Signalling by fibroblast growth factor receptor 3 and parathyroid hormone-related peptide coordinate cartilage and bone development. *Bone* 34 (1):13-25, 2004

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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM


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