



Anti C-Peptide II (Rat) Serum

Cat. No. YII-Y220-EX Lot No. 90171205

Description: This antiserum was raised in a rabbit by immunization with a carrier free synthetic C-peptide II (rat) 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 C-peptide (rat).

Immunogen: Synthetic C-peptide II (rat), carrier free **Host:** Rabbit

Amino Acid Sequence of C-peptide II (rat)^{1,2)}
EVEDPQVAQL ELGGPGAGD LQTLALEVAR Q

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 reconstituted, 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: 1:1,250 (final dilution 1:10,000) for radioimmunoassay; 1:1,000- 10,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on RIA): C-peptide I (rat) 100%, C-peptide II (rat) 100%, C-peptide I (7-31) (rat) 100%, C-peptide II (7-31) (rat) 100%, C-peptide I (15-31) (rat) 100%, C-peptide II (15-31) (rat) 100%, C-peptide I (20-31) (rat) 80 %, C-peptide I (1-23) (rat) <0.001%, C-peptide II (1-23) (rat) <0.001%, C-peptide (human) 0.01%³⁾

Positive Control (immunohistochemistry): Rat pancreas.

Species Tested: Rat

REFERENCES:

- 1) J. Markussen and F. Sundby, Rat-proinsulin C-peptides. Amino-acid sequences, *Europ J Biochem*, 25: 153, 1972
- 2) H.S. Tager and D.F. Steiner. Primary Structures of the proinsulin connecting peptides of the rat and the horse, *J Biol Chem*, 247:7936-7940, 1972
- 3) C. Yanaihara, J. Ozaki et al., Immunological studies on synthetic rat and guinea pig C-peptides. In: *Proinsulin, Insulin, C-peptide (S Baba et al Ed) Excerpta Medica, Amsterdam-Oxford*, pp87-93, 1979

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