



## Anti C-Peptide I (Rat) Serum

Cat. No. YII-Y221-EX      Lot No. 0580704

**Description:** This antiserum was raised in a rabbit by immunization with a porcine thyroglobulin (pTG) conjugate of synthetic C-peptide I (rat) peptide. The product vial contains 50 µL 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 I (rat).

**Immunogen:** Synthetic C-peptide I (rat)-pTG conjugate **Host:** Rabbit

### **Amino Acid Sequence of C-peptide I (rat)<sup>1,2)</sup>**

EVEDPQVPQL ELGGGPEAGD LQTLALEVAR Q

**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. 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:** 1:3,000 for enzymeimmunoassay<sup>3)</sup>; 1:1,500 (final dilution ~1:10,500) 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 EIA):** C-peptide I (rat) 100%, C-peptide II (rat) 52.9%, C-peptide I (mouse) 28.8%, C-peptide II (mouse) 2.95%, C-peptide (human) 0%

**Positive Control (immunohistochemistry):** Rat pancreas.

**Species Tested:** Rat

### **REFERENCES:**

- 1) J. Markussen and F.Sundby, Rat-proinsulin C-peptides. Amino-acid sequences, European Journal of Biochemistry, 25: 153, 1972
- 2) H.S. Tager and D.F. Steiner, Primary Structures of the proinsulin connecting peptides of the rat and the horse, Journal of Biological Chemistry, 247:7936-7940, 1972
- 3) W.E. Luo, N. Yanaihara et al., An experimental analysis of therapeutic effects of a Chinese herbal prescription in streptozotocin-treated rats, Biomedical research, 19 (2): 127-133, 1998

### **FOR RESEARCH LABORATORY USE ONLY**

DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

#### **Distributor**



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