Anti Total Glucagon Serum

Cat. No. YP040 **Lot No. 656101226**

Description: This antiserum was raised in a rabbit by immunization with a bovine serum albumin (BSA) conjugate of synthetic des-Asn^{28}, Thr^{29}-[Homoser^{27}]-glucagon. The product vial contains 50 μL 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 total glucagon (human, rat).

Immunogen: Synthetic des-Asn^{28}, Thr^{29}-[Hser^{27}]-glucagon (CNBr-glucagon)-BSA conjugate **Host:** Rabbit

Amino Acid Sequence of Pancreatic Glucagon[1]**:**

HSQGTFTSDY SKYLDSRRAQ DFVQWLMNT

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 ~80,000) for radioimmunoassay; 1:1,000-5,000 for immunohistochemistry (frozen section). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay)[4]**:** Pancreatic glucagon 100%, glicentin (porcine) 100%, glucagon (1-12) < 0.001%, glucagon (13-17) <0.001%, glucagon (19-29) 0%, VIP (porcine) 0%, secretin (porcine) 0%

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

Species Tested: Human, rat, dog

REFERENCES:

1) J. Thomsen, K. Kristiansen et al., The amino acid sequence of human glucagon. FEBS Letters. 21:315-320, 1972

2) T. Nishio, T Kodaira et al., Production of antisera to des Asn^{28} Thr^{29} [Homoser^{27}]-glucagon; The development of radioimmunoassay for total glucagon-like immunoreactivity in human plasma. Endocrinologica japonica 28: 419-427, 1981

3) T. Katagiri, H. Shirai et al ., Glucagon related substance in dog gastrointestinal muscle layer. Proceedings of the 4th Gut Hormones, Japanese Society of Gut Hormones (Ed) 4: 250-256, 1984

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SCETI K.K.
DF Kasumigaseki Place, 3-6-7 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013 Japan
URL: http://www.sceti.co.jp/export/ e-mail: exp-pet@sceti.co.jp
<Manufacturer>
Yanaihara Institute Inc.
2480-1 Awakura, Fujinomiya-shi, Shizuoka 418-0011 JAPAN