

**Anti Insulin (Human) Serum**

Cat. No. Y370

Lot No. 15230908

**Description:** This antiserum was raised in a guinea pig by immunization with a recombinant insulin (human) protein. 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 insulin.

**Immunogen:** Recombinant insulin (human), carrier free

**Host:** Guinea pig

**Amino Acid Sequence of Insuline (human)<sup>1)</sup>:**

A chain: GIVEQCCTSICSL YQLENYC N

B chain: FVNQHLCGSH LVEALYLVCGERGFFYTPKT

**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. NaN<sub>3</sub> 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. Reconstituted antiserum solution can also be aliquotted and stored at -20°C to -80°C for six months without marked loss of activity. Repeated freezing-thawing should be avoided.

**Suggested Working Dilution Range:** 1:100 for immunohistochemistry (frozen or paraffin sections)<sup>2)</sup>. Optimal dilution should be determined by each laboratory for each application.

**Specificity** (based on ELISA): Insulin (human) 100%, Insulin (dog) 53.1%, Insulin (rabbit) 59.6%, Insulin (mouse) 11.2%.

**Positive Control** (immunohistochemistry): Pancreas


**Species Tested:** Mouse

**REFERENCES:**

1) G.I. Bell, R.L. Pictet et al., Sequence of the human insulin gene. *Nature* 284:26, 1980

2) A. Winarto, T. Miki et al., Morphological Changes in Pancreatic Islets of KATP Channel-Deficient Mice: The Involvement of KATP Channels in the Survival of Insulin Cells and the Maintenance of Islet Architecture. *Archives of Histology and Cytology* 6459-67, 2001

**FOR RESEARCH LABORATORY USE ONLY**  
DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

  
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