Anti Insulin (Human) Serum Cat. No. Y370 Lot No. 15261110

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 immuno-reaction with insulin.

Immunogen: Recombinant insulin (human) , carrier free **Host:** Guinea pig

Amino Acid Sequence of Insuline (human)[1]**:**

A chain:GIVEQCCTSICSL YQLENYC N

B chain: FVNQHLCGSH LVEALYLVCG ERGFFYTPKT

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_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 recon- stitution, 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)[2]. 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 Involment of KATP Channels in the Survival of Insulin Cells and the Maintenance of Islet Architecture. Archives of Histology and Cytology 6459-67, 2001

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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

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