

Anti Insulin (Human) Serum

Cat. No. Y370

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)¹⁾:

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. 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 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)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

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



2480-1 Awakura, Fujinomiya, Shizuoka, 418-0011 Japan
FAX: +81-544-22-2770 TEL: +81-544-22-2771

For more information, please visit our internet website: <http://www.yanaihara.co.jp> or contact us to ask@yanaihara.co.jp

Copyright: Yanaihara Institute Inc. 2004 All rights Reserved