

## Anti Insulin (Human) Serum

Cat. No. Y370 Lot No. 02150703

**Description:** This antiserum was raised in a guinea pig by immunization with a recombinant insulin (human) protein. The product vial contains 50  $\mu$ L 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)<sup>1)</sup>:

A chain:	GIVEQCCTSI	CSLYQLENYC	N
B chain:	FVNQHLCGSH	LVEALYLVCG	ERGFFYTPKT

**Product Form:** Lyophilized unpurified serum

**Size:** 50  $\mu$ L

**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:** 1:1,000-3,000 (final dilution ~1:21,000) for radioimmunoassay; 1:1,000-5,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

**Specificity** (based on ELISA): Insulin (human) 100%, insulin (porcine) 100%, insulin (rabbit) 100%, insulin (dog) 100%, insulin (bovine) 18%, proinsulin (human) 20%

### REFERENCES:

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

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