



**Catalog Number:** RA20056

**Host:** Rabbit

**Product Type:** Whole Serum

**Species Reactivity:** Rat and Mouse

**Immunogen Sequence:** Bovine/Porcine insulin.

**Format:** Lyophilized 100 ul. containing .09% Sodium Azide.

**Applications:** Immunohistochemistry: 1:500-1:1000 in PBS/0.3% Triton X-100 - Cy3 Technique  
1:3000-1:5000 in PBS/0.3% Triton X-100 – biotin/avidin-HRP Technique.

**Storage:** Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Maintain at +2-8°C for 3 months or at -20°C for longer periods. Stable for 1 year. *Avoid repeated freeze-thaw cycles.*

### Application Notes

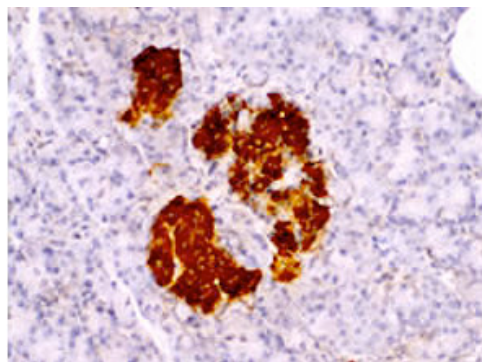
Reconstitute vial with 100 µL of distilled or deionized water.

The antibody demonstrates strongly positive labeling of rat pancreatic beta cells using indirect immunofluorescent and biotin/avidin-HRP techniques. Recommended primary dilutions for these methods are 1/500-1/1000 in PBS/0.3% Triton X-100 - Cy3 Technique and 1/3000-1/5000 in PBS/0.3% Triton X-100 – biotin/avidin-HRP Technique.

Immunostaining is completely abolished by soluble pre-adsorption with bovine insulin at 10 µg per mL of diluted antiserum.

#### Description/Data:

Insulin is hormone of intermediate metabolism present throughout the body. This hormone is involved in carbohydrate, protein, and lipid metabolism. Insulin enhances membrane transport of glucose, amino acids, and certain ions. It also promotes glycogen storage, formation of triglycerides and synthesis of proteins and nucleic acids. Deficiency of insulin results in diabetes mellitus.



*Image: Insulin staining of rat pancreatic beta cells.*

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