



IHC image of beta cells in islets of Langerhans of rat pancreas.

Insulin Antibody

Catalog #	20056	Product type	Primary antibodies
Lot #	1317001	Clonality	Polyclonal
Form	Lyophilized whole serum (100µL)	Isotype	IgG
Host	Rabbit	Preservative	≤ 0.09% sodium azide
Reacts With	Buffalo, Cattle, Chick, Cow, Horse, Human, Lizard, Macaque, Monkey, Moth, Mouse, Pig, Rat, Sheep	Antigen	Mixture of bovine/porcine insulin.

INSTRUCTIONS

Preparation	Do not reconstitute until ready to use since the product is most stable when lyophilized. The product does not need to be kept cooled during shipping; however, for long term storage, store lyophilized antibody until ready to use at -15°C or lower. Reconstitute with 100 µL of distilled or deionized water. After reconstitution, use immediately or refrigerate at 2°– 8°C. To avoid freeze/thaw cycles, dilute unused antibody with PBS or Tris buffer at a dilution no higher than 1/10, then aliquot and freeze at -15°C or lower. Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.
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APPLICATION

IHC Quality Control	The ImmunoStar Insulin antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat pancreatic beta cells using indirect immunofluorescence and biotin/avidin-HRP techniques. Immunostaining is completely abolished by soluble preadsorption with bovine insulin at 10 µg per mL of diluted antiserum.
Tissue	Rat Pancreas (Pancreatic islets)
Perfusion Fixation	<ul style="list-style-type: none"> Fixative: 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4; 500 mL over 20-30 min. Post Fixation: 1.5 hr. at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4.
Sections	10 µm cryostat
Tissue Incubation	18–24 hours at 2°– 8°C.
Detection System	Use Cy3 or Bn/AV-HRP reagents at dilutions recommended by the manufacturer.
Suggested Dilution	1/3,000–1/5,000 in PBS/0.3% Triton X-100 – Bn/Av-HRP immunohistochemistry

NOTES

Special Instructions	It is recommended that the researcher perform a primary antibody dilution series using our dilution recommendations as a guideline. Note that a change in the fixation or buffering system from our protocol may change the configuration of the protein which could alter the reactivity with the tissue tested.
Long-Term Storage	After reconstitution, use immediately or refrigerate at 2°-8°C up to 2 days. For long-term storage, aliquot antibody and freeze at -15°C or lower. Avoid repeated freeze/thaw cycles.
Concentration	Not applicable. Antibody concentration is only relevant for purified antibodies.
Journal References	www.immunostar.com/publications

For Laboratory Reagent Use Only. Analytical and performance characteristics are not established.

ALL PRODUCTS ARE FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE

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