BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Insulin / IRDN (beta-Cell & Insulinoma Marker) Monoclonal Antibody

Catalog Number: M00067

About INS

Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through the C-peptide. Proinsulin, which has very little biological activity, is cleaved by proteases within its cell of origin into the insulin molecule and the C-terminal basic residue. 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. The main storage site for insulin is the pancreatic islets. Antibodies to insulin are important as beta-cell and insulinoma marker.

Overview

Product Name	Anti-Insulin / IRDN (beta-Cell & Insulinoma Marker) Monoclonal Antibody
Reactive Species	Cow, Human, Mouse, Pig, Rabbit
Description	Boster Bio Anti-Insulin / IRDN (beta-Cell & Insulinoma Marker) Monoclonal Antibody (Catalog # M00067). Tested in IHC applications. This antibody reacts with Human, Cow, Pig, Rabbit, Mouse.
Conjugate	Biotin
Application	IHC
Clonality	Monoclonal Clone: IRDN/805
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P01308

Technical Details

Immunogen	Recombinant INS protein
Predicted Reactive Species	Chimpanzee
Isotype	IgG1, kappa
Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(No special pretreatment is required for staining of formalin/paraffin tissues.)Optimal dilution for a specific application should be determined.

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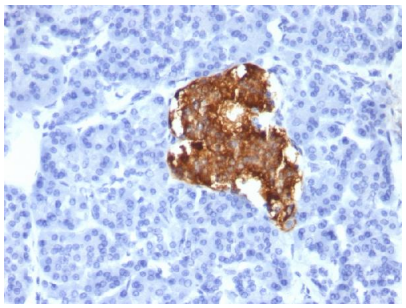
Anti-Insulin / IRDN (beta-Cell & Insulinoma Marker) Monoclonal Antibody (M00067) Images



Formalin-fixed, paraffin-embedded human pancreas stained with Anti-Insulin Monoclonal Antibody (IRDN/805).

11 Publications Citing This Product

1. PubMed ID: 10.1097/TP.0b013e3181ae5dcf, Cotransplantation With Xenogenetic Neonatal Porcine Sertoli Cells Significantly Prolongs Islet Allograft Survival in Nonimmunosuppressive Rats

2. PubMed ID: 10.1016/j.toxlet.2019.08.016, Attenuated Tregs increase susceptibility to type 1 diabetes in prenatal nicotine exposed female offspring mice

3. PubMed ID: 10.1016/j.jbiotec.2010.12.003, Reversible immortalization of rat pancreatic beta cells with a novel immortalizing and tamoxifen-mediated self-recombination tricistronic vector

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