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Recombinant anti-Insulin antibody

Images



Overview

Quantity:	100 μg
Target:	Insulin (INS)
Reactivity:	Human, Pig, Mouse, Cow, Rabbit
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Insulin antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details	
Immunogen:	Recombinant full-length human Insulin protein
Clone:	RIRDN-805
Isotype:	IgG1 kappa
Specificity:	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.

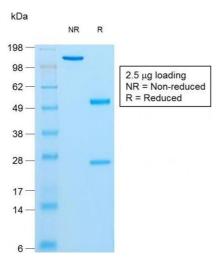
Product Details Purification: Purified by Protein A/G **Target Details** Target: Insulin (INS) INS (INS Products) Alternative Name: Molecular Weight: 6kDa Gene ID: 3630 UniProt: P01308 Pathways: NF-kappaB Signaling, RTK Signaling, Positive Regulation of Peptide Hormone Secretion, Peptide Hormone Metabolism, Hormone Activity, Carbohydrate Homeostasis, ER-Nucleus Signaling, Regulation of Carbohydrate Metabolic Process, Feeding Behaviour, Autophagy, Negative Regulation of intrinsic apoptotic Signaling, Brown Fat Cell Differentiation, Positive Regulation of fat Cell Differentiation **Application Details Application Notes:** Positive Control: MIA PaCa-2 cells. Pancreas. Known Application: Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined. Restrictions: For Research Use only Handling Concentration: 200 μg/mL Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide. Preservative: Sodium azide Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. 4 °C,-80 °C Storage: Storage Comment: 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.

Expiry Date:

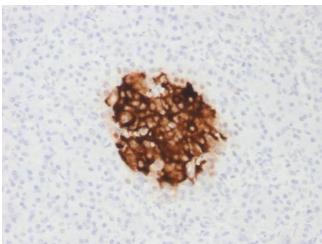
24 months

Images



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Insulin MouseRecombinant Monoclonal Antibody (rIRDN/805).Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human
Pancreas stained with Insulin Mouse Recombinant
Monoclonal Antibody (rIRDN/805).