

# Insulin / IRDN (beta-Cell & Insulinoma Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone IRDN/805] Catalog # AH11589

## **Product Information**

ApplicationIHC, IF, FCPrimary AccessionP01308Other Accession3630, 272259

**Reactivity** Human, Mouse, Rabbit, Pig, Bovine

**Host** Mouse **Clonality** Monoclonal

**Isotype** Mouse / IgG1, kappa

Clone Names IRDN/805 Calculated MW 11981

### Additional Information

Gene ID 3630

Other Names Insulin, Insulin B chain, Insulin A chain, INS

**Application Note** IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50

**Storage** Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions Insulin / IRDN (beta-Cell & Insulinoma Marker) Antibody - With BSA and

Azide is for research use only and not for use in diagnostic or therapeutic

procedures.

#### **Protein Information**

Name INS

**Function** Insulin decreases blood glucose concentration. It increases cell permeability

to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the

pentose phosphate cycle, and glycogen synthesis in liver.

**Cellular Location** Secreted.

# **Background**

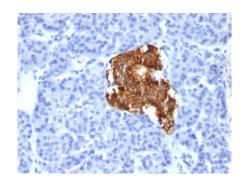
Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through the C-peptide. Proinsulin, which has very little biological activity, is cleaved by

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.

## References

Kahn, C.R. 1985. The molecular mechanism of Insulin action. Ann. Rev. Med. 36: 429-451

# **Images**



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.