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

Mouse Monoclonal Antibody [Clone IRDN/794]

| Catalog No | Format | Size |
|---|---|---|
| 3630-MSM4-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 3630-MSM4-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 3630-MSM4-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

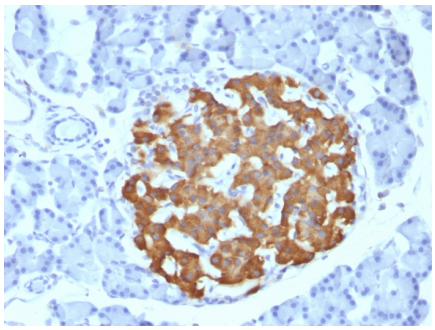
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

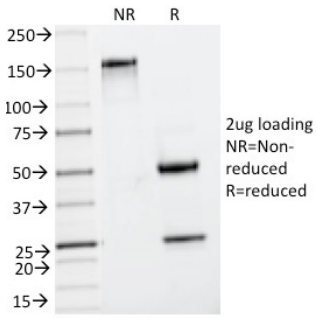
| | |
|---|---|
| **Clone** | IRDN/794 |
| **Gene Name** | INS |
| **Immunogen** | Recombinant INS protein |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG1 / Kappa |
| **Mol. Weight of Antigen** | 6kDa |
| **Cellular Localization** | Secreted |
| **Species Reactivity** | Cow, Human, Mouse, Pig, Rat |
| **Positive Control** | MIA PaCa-2 cells. Pancreas. |

**Optimal dilution for a specific application should be determined.*

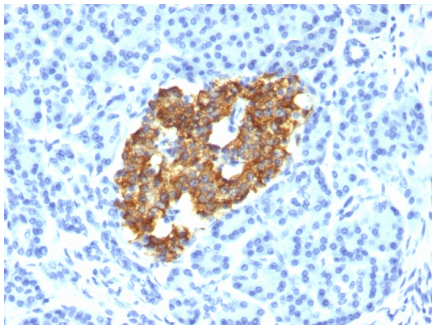
## Product Images for Insulin / IRDN (beta-Cell & Insulinoma Marker) Antibody



Formalin-fixed, paraffin-embedded Rat Pancreas stained with Insulin Mouse Monoclonal Antibody (IRDN/794).




SDS-PAGE Analysis of Purified Insulin Mouse Monoclonal Antibody (IRDN/794). Confirmation of Integrity and Purity of Antibody



Formalin-fixed, paraffin-embedded human Pancreas stained with Insulin Mouse Monoclonal Antibody (IRDN/794).

## Specificity & Comments

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.

## Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

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.

## Research Areas

Autophagy, Cardiovascular, Developmental Biology, Mesenchymal Stem Cell Differentiation, Signal Transduction, Stem Cell Differentiation, Transcription Factors

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.