

## 12-1198: Anti-Insulin / IRDN (beta-Cell & Insulinoma Marker) Recombinant Mouse Monoclonal Antibody (Clone:rIRDN/805)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	rIRDN/805
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human, Mouse
<b>Gene :</b>	INS
<b>Gene ID :</b>	3630
<b>Uniprot ID :</b>	P01308
<b>Format :</b>	Purified
<b>Alternative Name :</b>	IDDM2, ILPR, IRDN, MODY10, Proinsulin
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Recombinant full-length human IRDN protein

### Description

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 Info

<b>Amount :</b>	20 µg / 100 µg
<b>Purification :</b>	Protein A/G
<b>Content :</b>	200µg/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	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.

### Application Note

Immunohistochemistry (Formalin-fixed) (1-2µg/ml for 30 minutes 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);

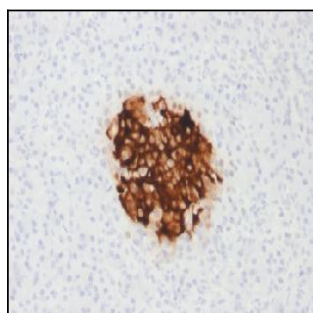


Figure 1: Formalin-fixed, paraffin-embedded human Pancreas stained with Insulin Mouse Recombinant Monoclonal Antibody (rIRDN/805).

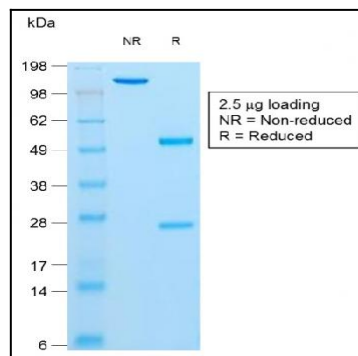


Figure 2: SDS-PAGE Analysis of Purified Insulin Mouse Recombinant Monoclonal Antibody (rIRDN/805).