

Proinsulin Antibody (Clone HPI-B5)
Mouse Monoclonal Antibody
Catalog # ABV10083**Specification**

Proinsulin Antibody (Clone HPI-B5) - Product Information

Application	E, IHC
Primary Accession	P01308
Reactivity	Human, Pig, Bovine
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	11981

Proinsulin Antibody (Clone HPI-B5) - Additional Information**Gene ID** 3630**Application & Usage**

The antibody can be used for indirect
ELISA, WB and IHC.

Other Names

Proinsulin

Target/Specificity

ProInsulin

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (1.0 mg/ml) purified mouse monoclonal antibody supplied in PBS with 0.05% (W/V) sodium azide.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Proinsulin Antibody (Clone HPI-B5) is for research use only and not for use in diagnostic or therapeutic procedures.

Proinsulin Antibody (Clone HPI-B5) - 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

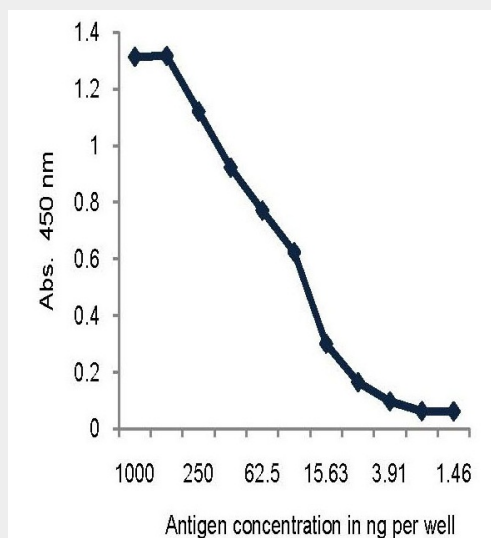
Secreted.

Proinsulin Antibody (Clone HPI-B5) - Protocols

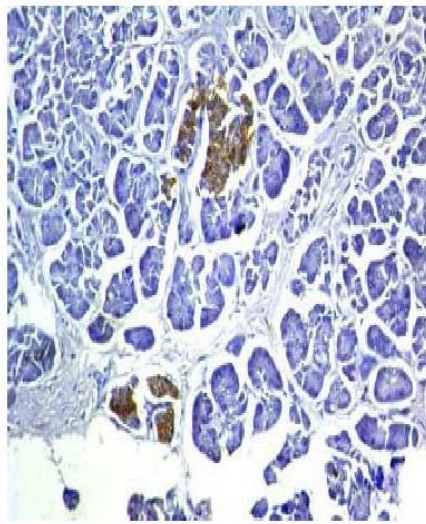
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Proinsulin Antibody (Clone HPI-B5) - Images



Serial dilution of the recombinant insulin was done to check the affinity. The antibody used at 10 µg/ml can sensitively detect antigen up to 4 ng per well.



Antigen retrieval was done with Tris-EDTA, pH 9.0 in pressure cooker for 20 minutes. Optimum staining of the islet cell was observed

Proinsulin Antibody (Clone HPI-B5) - Background

Proinsulin is a prohormone precursor to Insulin, made by the pancreas in response to increased blood sugar. Proinsulin is 39 amino acids longer than the mature Insulin, of which 4 are completely lost and the remaining 35 forms the C-peptide. The measurement of Proinsulin in serum provides a useful, valuable information for the diagnosis of insulinomas. Proinsulin levels have also been shown to be elevated in non-insulin dependent diabetics (NIDDM), in insulin dependent diabetics (IDDM) and other clinical situations. The antibody recognizes insulin and recombinant proinsulin, but does not react with synthetic C-peptide.