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C-Peptide Antibody (Clone HCP-B2)

Mouse Monoclonal Antibody

Catalog # ABV10080

Specification

C-Peptide Antibody (Clone HCP-B2) - Product Information

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

C-Peptide Antibody (Clone HCP-B2) - Additional Information

Gene ID 3630

Application & Usage — **The antibody can be used for indirect ELISA and IHC.**

Other Names
C-peptide

Target/Specificity
C-Peptide

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
C-Peptide Antibody (Clone HCP-B2) is for research use only and not for use in diagnostic or therapeutic procedures.

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C-Peptide Antibody (Clone HCP-B2) - 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.

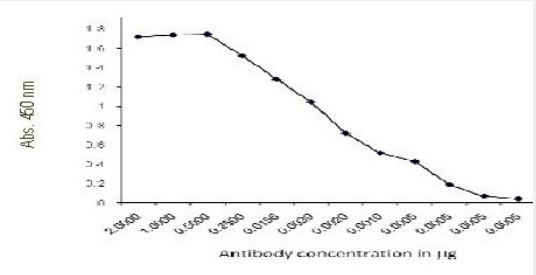
Cellular Location
Secreted.

C-Peptide Antibody (Clone HCP-B2) - Protocols

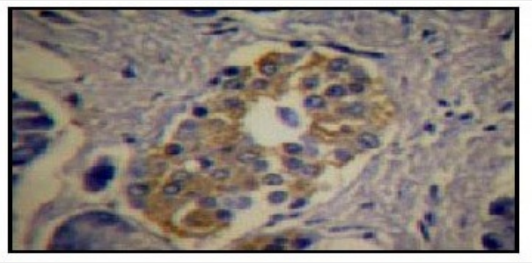
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

C-Peptide Antibody (Clone HCP-B2) - Images



Peptide was coated at0.5 µg per well: Serial dilution of the antibody starting with 2 µg/well was done to check for the affinity. 0.5 µg of coated antigen can be sensitively detected by the anti-human C-peptide antibody, used at 100 pg/well concentration.



Immunohistochemistry of Human Pancreatic Tissue Using Anti-human C-peptide Antibody: Antigen retrieval was done with Tris-EDTA, pH 9.0 in pressure cooker for 20 minutes. Strong and specific staining for islet cells were observed.

C-Peptide Antibody (Clone HCP-B2) - Background

C Peptide is part of the molecule of Proinsulin, the insulin precursor molecule, that consists of three parts: C Peptide and two long strands of amino acids (called the alpha and beta chains) that later become linked together to form the insulin molecule. From every molecule of proinsulin, one molecule of insulin plus one molecule of C Peptide are produced. C peptide is released into the blood stream in equal amounts to insulin. A test of C peptide levels will show how much insulin the body is making. The ratio of C-peptide and Proinsulin in human serum is also very important in diagnosis and prognosis of various diseases like Polycystic Ovary Syndrome, Ovarian carcinoma, etc.