C-Peptide Antibody (Clone HCP-B2)

CATALOG #: 3103-100

Amount: 100 µg

HOST: Mouse

ISOTYPE: IgG1

CLONE# HCP-B2

PURIFICATION: Protein G

IMMUNOGEN: Full length synthetic human C-peptide

SPECIES REACTIVITY: Human (Does not react to recombinant human, mouse or bovine Insulin; does not react to Glucagon)

ANTIBODY FORMULATION:
100 µg (0.5 mg/ml) affinity purified mouse monoclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

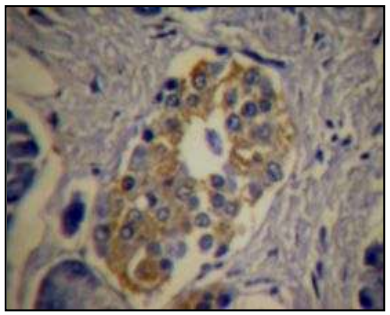
STORAGE CONDITIONS:
Store at -20°C. Aliquot when required. Avoid repeated freeze/thaw cycles.

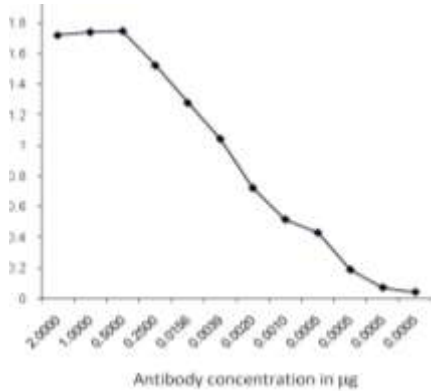
DESCRIPTION:
C Peptide is part of the molecule of Proinsulin, the insulin precursor molecule, that consists of three parts: C Peptide and two long strands of amino acids (called the alpha and beta chains) that later become linked together to form the insulin molecule. From every molecule of proinsulin, 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.

APPLICATIONS:

- Indirect ELISA (For detection of antigen; recommended use at 1-2 µg/ml)
- IHC (recommended use at 20-40 µg/ml)
- Optimal concentrations should be determined individually

FOR RESEARCH USE ONLY! Not to be used on humans.





Immunohistochemistry of Human Pancreatic Tissue Using Anti-human C-peptide Antibody (Left): *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.*
Indirect ELISA for Detection of Antigen (Right): Peptide was coated at 0.5 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.

RELATED PRODUCTS:

- Rat pancreatic monoclonal antibody
- GLP-1 monoclonal antibody
- Phospho-IRS (Ser616) monoclonal antibody
- PYY3-36 monoclonal antibody
- Proinsulin monoclonal antibody