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#4593

C-Peptide Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IHC-P, IF-F, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 4	Source/Isotype: Rabbit	UniProt ID: #P01308	Entrez-Gene Id: 3630
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Product Usage Information

Application

Immunohistochemistry (Paraffin)
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)

Dilution

1:100
1:400
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

C-peptide Antibody detects endogenous levels of total C-peptide protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly71 of human C-peptide protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Glucose homeostasis is regulated by hormones. Elevation of blood glucose levels during feeding stimulates insulin release from pancreatic β -cells through a glucose sensing pathway (1). Proinsulin, the insulin precursor molecule, is processed prior to its secretion. Insulin is composed of A-peptide and B-peptide which are joined by a disulfide bond. The center one-third of the molecule is cleaved and released as C-peptide, which has a longer half-life than insulin (2).

Background References

1. Straub, S.G. and Sharp, G.W. (2002) *Diabetes Metab. Res. Rev.* 18, 451-463.
2. Polonsky, K.S. and Rubenstein, A.H. (1984) *Diabetes* 33, 486-494.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IHC-P: Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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