# C-Peptide Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

### Applications

<table>
<thead>
<tr>
<th>IHC-P, IHC-F, IF-IC, IF-F</th>
<th>Endogenous</th>
</tr>
</thead>
<tbody>
<tr>
<td>H, M, R</td>
<td>4 kDa</td>
</tr>
</tbody>
</table>

### Species Cross-Reactivity

- H — human
- M — mouse
- R — rat
- Hm — hamster
- Mk — monkey
- Mi — mink
- C — chicken
- Dm — D. melanogaster
- X — Xenopus
- Z — zebrafish
- B — bovine
- Dg — dog
- Pg — pig
- Sc — S. cerevisiae
- Ce — C. elegans
- Hr — horse
- All — all species expected

### Molecular Wt.

- 4 kDa

### Source

- Rabbit**

### 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.

*Species cross-reactivity is determined by western blot.
**Anti-rabbit secondary antibodies must be used to detect this antibody.

### Recommended Antibody Dilutions:

- Immunohistochemistry (Paraffin): 1:100
- Unmasking buffer: Citrate
- Antibody diluent: TBST-5%NGS
- Immunohistochemistry (Frozen): 1:100
- Fixative: 3% Formaldehyde
- Immunofluorescence (IF-IC): 1:100
- Immunofluorescence (IF-F): 1:400

For application specific protocols please see the web page for this product at www.cellsignal.com. Please visit www.cellsignal.com for a complete listing of recommended companion products.

### Background References:


### Entrez-Gene ID

- #3630

### Swiss-Prot Acc.

- #P01308

### 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 precursor molecule is cleaved and released as C-peptide, which has a longer half-life than insulin (2).

### 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 the sequence of human C-peptide. Antibodies are purified by protein A and peptide affinity chromatography.

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Immunohistochemical analysis of paraffin-embedded rat pancreas showing staining of β-cells using C-Peptide Antibody.

Immunohistochemical analysis of paraffin-embedded mouse pancreas, showing staining of β cells, using C-Peptide Antibody.

Immunohistochemical analysis of frozen mouse pancreas using C-Peptide Antibody.