

# C-Peptide Rabbit mAb

Catalog No.: A25004 **Recombinant**

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

12kDa

### Category

Primary antibody

### Applications

ELISA, IHC-P, IF/ICC

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC64366

## Background

This gene encodes insulin, a peptide hormone that plays a vital role in the regulation of carbohydrate and lipid metabolism. After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into three peptides: the B chain and A chain peptides, which are covalently linked via two disulfide bonds to form insulin, and C-peptide. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. A multitude of mutant alleles with phenotypic effects have been identified, including insulin-dependent diabetes mellitus, permanent neonatal diabetes mellitus, maturity-onset diabetes of the young type 10 and hyperproinsulinemia. There is a read-through gene, INS-IGF2, which overlaps with this gene at the 5' region and with the IGF2 gene at the 3' region.

## Recommended Dilutions

IHC-P 1:50 - 1:200

IF/ICC 1:50 - 1:200

## Immunogen Information

### Gene ID

3630

### Swiss Prot

P01308

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human INS (NP\_000198.1).

### Synonyms

IDDM; ILPR; IRDN; IDDM1; IDDM2; PNDM4; MODY10; C-Peptide

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

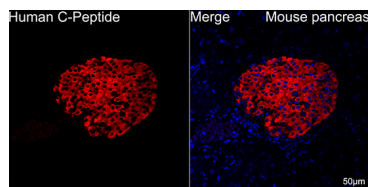
Affinity purification

### Storage

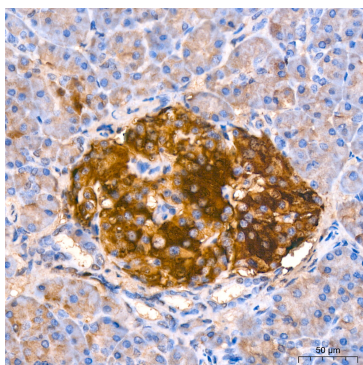
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

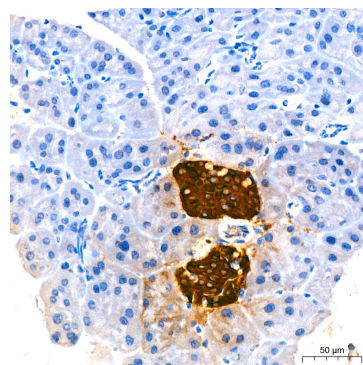
## Validation Data



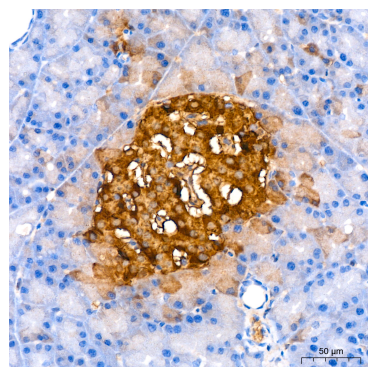
Confocal imaging of paraffin-embedded mouse pancreas using C-Peptide Rabbit mAb (A25004, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



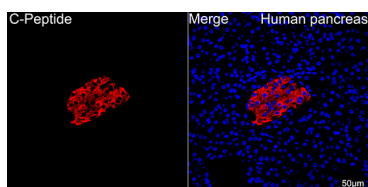
Immunohistochemistry analysis of C-Peptide in paraffin-embedded human pancreas tissue using C-Peptide Rabbit mAb (A25004) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



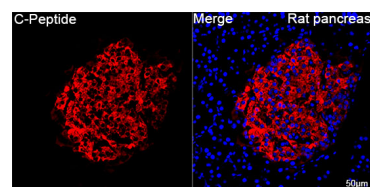
Immunohistochemistry analysis of C-Peptide in paraffin-embedded mouse pancreas tissue using C-Peptide Rabbit mAb (A25004) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



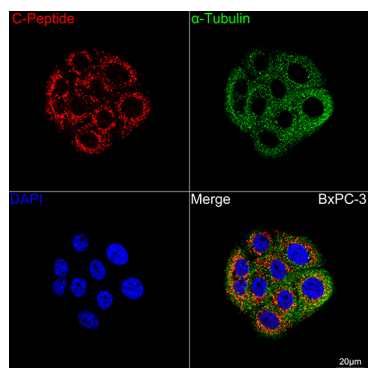
Immunohistochemistry analysis of C-Peptide in paraffin-embedded rat pancreas tissue using C-Peptide Rabbit mAb (A25004) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of paraffin-embedded Human pancreas tissue using C-Peptide Rabbit mAb (A25004, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Rat pancreas tissue using C-Peptide Rabbit mAb (A25004, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of BxPC-3 cells using C-Peptide Rabbit mAb (A25004, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-tubulin Mouse mAb (AC012, dilution

## Validation Data

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1:400) followed by incubation with ABflo®  
488-conjugated Goat Anti-Mouse IgG (H+L)  
Ab (AS076, dilution 1:500) (Green). DAPI was  
used for nuclear staining (Blue). Objective:  
100x.