For Research Use Only

C-Peptide Recombinant monoclonal antibody

Catalog Number:87566-3-RR

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
87566-3-RR

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_000207

GeneID (NCBI):
3630

UNIPROT ID:
P01308

Full Name:
INS

Calculated MW:
110aa, 12 kDa

Purification Method:
Protein A purification

CloneNo.:
253514D7

Recommended Dilutions:
IHC: 1:500-1:2000
IF-P: 1:500-1:2000

Applications

Tested Applications:
IHC, IF-P, ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human pancreas tissue,

IF-P : human pancreas tissue,

Background Information

C-peptide is a 31-amino-acid peptide that connects the A and B chains of proinsulin and is co-secreted with insulin in equimolar amounts from pancreatic beta cells. With a longer plasma half-life than insulin, it serves as a reliable biomarker of endogenous insulin secretion. Clinically, measuring C-peptide is crucial for distinguishing type 1 from type 2 diabetes, diagnosing hypoglycemia, and assessing residual beta-cell function. Emerging evidence also suggests that C-peptide may exert its own biological effects on vascular and renal tissues.

Storage

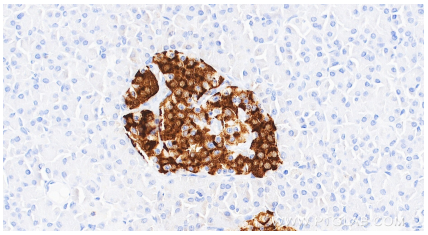
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

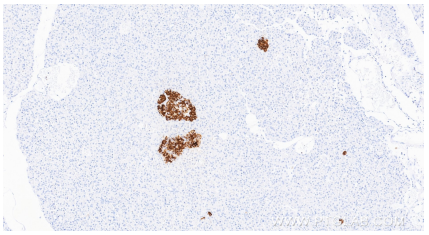
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

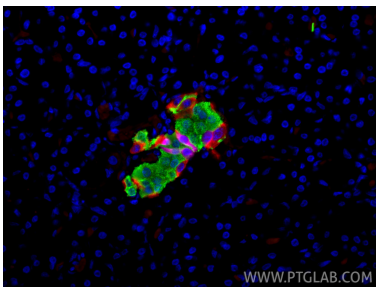
Selected Validation Data



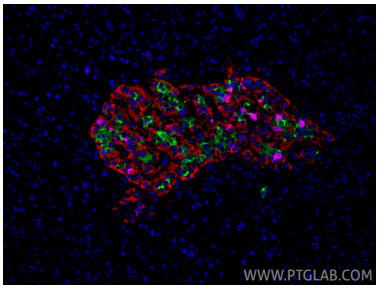
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 87566-3-RR (C-Peptide antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 87566-3-RR (C-Peptide antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human pancreas tissue using C-Peptide antibody (87566-3-RR, Clone: 253514D7) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CoraLite® Plus 647 Somatostatin antibody (CL647-84351, Clone: 240816D9, Magenta), Glucagon antibody (67286-1-Ig, Clone: 2A8G1, red). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human pancreas tissue using C-Peptide antibody (87566-3-RR, Clone: 253514D7) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CoraLite® Plus 647 Somatostatin antibody (CL647-84351, Clone: 240816D9, Magenta), Glucagon antibody (67286-1-Ig, Clone: 2A8G1, red). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).