

For Research Use Only

# CoraLite®594-conjugated INS Monoclonal antibody



Catalog Number:CL594-66198

## Basic Information

Catalog Number:

CL594-66198

Size:

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG8630

GenBank Accession Number:

BC005255

GeneID (NCBI):

3630

UNIPROT ID:

P01308

Full Name:

INS

Calculated MW:

110 aa, 12 kDa

Purification Method:

Protein A purification

CloneNo.:

4B6A7

Recommended Dilutions:

IF-P 1:200-1:800

Excitation/Emission maxima  
wavelengths:

588 nm / 604 nm

## Applications

Tested Applications:

IF-P

Species Specificity:

human, mouse, rat

Positive Controls:

IF-P : mouse pancreas tissue,

## Background Information

INS is a peptide hormone, produced by beta cells of the pancreas, and is central to regulating carbohydrate and fat metabolism in the body. It participates in glucose utilization, protein synthesis and in the formation and storage of neutral lipids. It is synthesized as a precursor molecule, which is processed prior to secretion. A- and B-peptides are joined together by a disulfide bond to form INS, while the central portion of the precursor molecule is cleaved and released as the C-peptide. Defects in INS results in type 1 diabetes mellitus. INS may also exist 36 kDa form corresponding to the hexameric INS form.

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

T: 4006900926

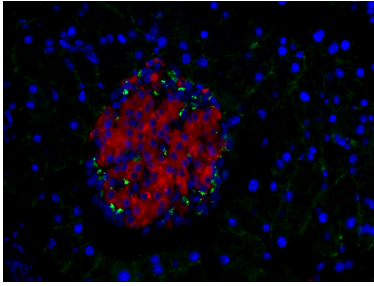
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse pancreas tissue using the CoraLite®594-conjugated version of this antibody, CL594-66198 (INS antibody), at dilution of 1:400. The  $\alpha$  cells of pancreas was labelled in green with CL488-67286 (Glucagon antibody).