

For Research Use Only

# CoraLite® Plus 488-conjugated INS Monoclonal antibody

Catalog Number: CL488-66198

2 Publications



## Basic Information

<b>Catalog Number:</b> CL488-66198	<b>GenBank Accession Number:</b> BC005255	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3630	<b>CloneNo.:</b> 4B6A7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P01308	<b>Recommended Dilutions:</b> IF-P 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> INS	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG8630	<b>Calculated MW:</b> 110 aa, 12 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P : mouse pancreas tissue,
<b>Cited Applications:</b> IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> mouse	

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Manxi Yang	39282328	bioRxiv	IF
Batoul Hammoud	38195178	Endocrinology	IF

## Storage

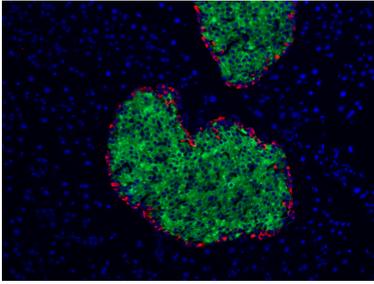
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse pancreas tissue using the CoraLite® Plus 488-conjugated version of this antibody, CL488-66198 (INS antibody), at dilution of 1:400. The  $\alpha$  cells of pancreas was labelled in red with 15954-1-AP (Glucagon antibody).