

For Research Use Only

# INS Monoclonal antibody

Catalog Number: 66198-1-Ig **34 Publications**



## Basic Information

<b>Catalog Number:</b> 66198-1-Ig	<b>GenBank Accession Number:</b> BC005255	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 3630	<b>CloneNo.:</b> 4B6A7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P01308	<b>Recommended Dilutions:</b> IHC 1:1000-1:10000 IF 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Full Name:</b> INS	
<b>Immunogen Catalog Number:</b> AG8630	<b>Calculated MW:</b> 110 aa, 12 kDa	

## Applications

**Tested Applications:**  
IF/ICC, IF-P, IHC, ELISA

**Cited Applications:**  
Cell treatment, IF, IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, mouse

**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, mouse pancreas tissue, rat pancreas tissue

**IF:** human pancreas tissue, 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. INS is synthesized as a precursor molecule, pro-INS, 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
Haocun Kong	36125960	J Agric Food Chem	IF
Shiyao Zhang	34555719	Ecotoxicol Environ Saf	IF
Zixuan Gao	36103628	Am J Physiol Endocrinol Metab	IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

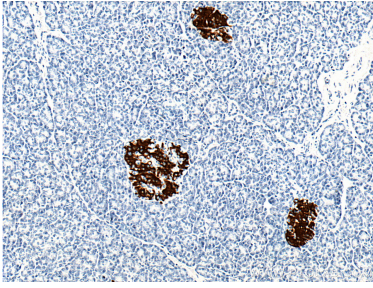
T: 4006900926

E: Proteintech-CN@ptglab.com

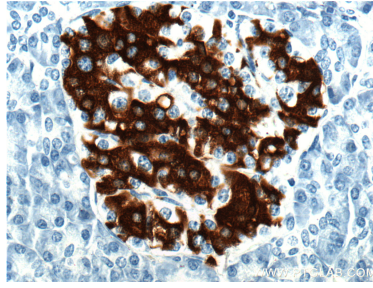
W: ptgcn.com

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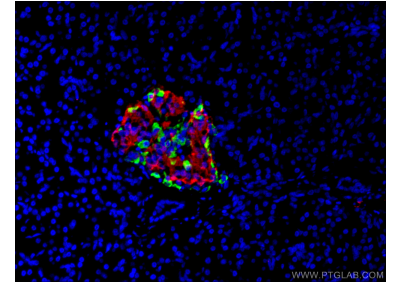
## Selected Validation Data



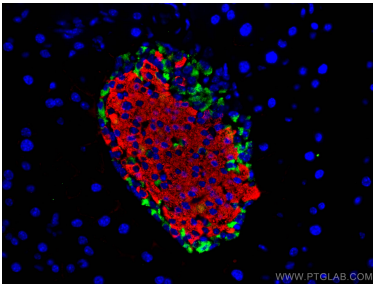
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 66198-1-Ig (Insulin Antibody) at dilution of 1:5000 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 66198-1-Ig (Insulin Antibody) at dilution of 1:5000 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed human pancreas tissue using 66198-1-Ig (Insulin antibody) at dilution of 1:100 and CoraLite594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). The  $\alpha$  cells of pancreas was labelled in green with 15954-1-AP (Glucagon antibody).



Immunofluorescent analysis of (4% PFA) fixed mouse pancreas tissue using INS antibody (66198-1-Ig, Clone: 4B6A7) at dilution of 1:400 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Somatostatin antibody (24496-1-AP, green).