For Research Use Only

INS Monoclonal antibody

Catalog Number:66198-1-Ig 83 Publications

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Basic Information

Catalog Number:
66198-1-Ig

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:
IHC: 1:1000-1:10000
IF-P: 1:50-1:500

Applications

Tested Applications:
IHC, IF-P, ELISA

Cited Applications:
WB, IHC, IF, Cell treatment

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

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, rat pancreas tissue, human pancreas tissue, human pancreas cancer tissue, mouse pancreas tissue

IF-P : 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

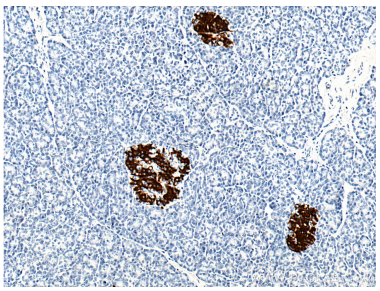
Storage

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

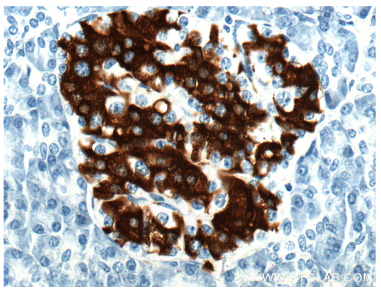
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

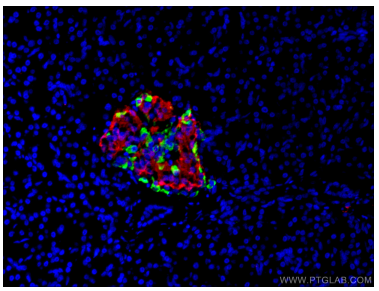
Selected Validation Data



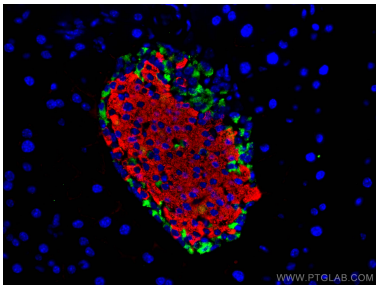
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 66198-1-Ig (Insulin Antibody) at dilution of 1:5000 (under 10x lens).



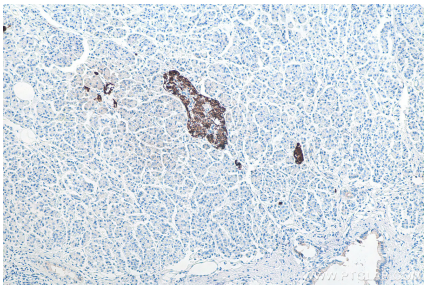
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 66198-1-Ig (Insulin Antibody) at dilution of 1:5000 (under 40x lens).



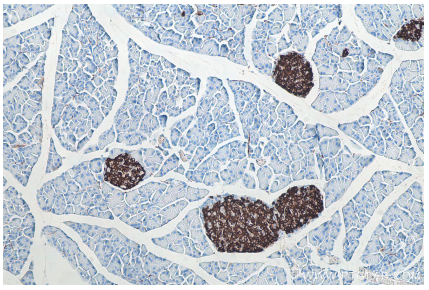
Immunofluorescent analysis of (4% PFA) fixed human pancreas tissue using 66198-1-Ig (Insulin antibody) at dilution of 1:100 and CoraLite594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). The α cells of pancreas was labelled in green with 15954-1-AP (Glucagon antibody).



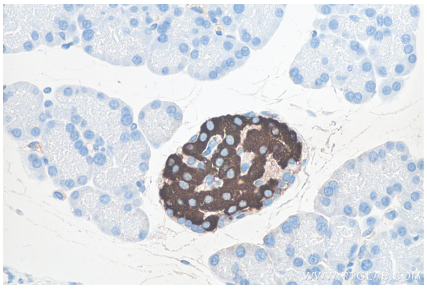
Immunofluorescent analysis of (4% PFA) fixed mouse pancreas tissue using INS antibody (66198-1-Ig, Clone: 4B6A7) at dilution of 1:400 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Somatostatin antibody (24496-1-AP, green).



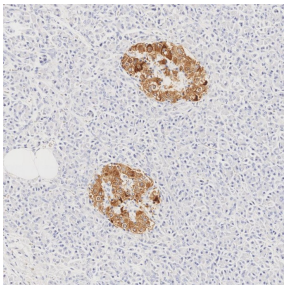
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66198-1-Ig (INS antibody) at dilution of 1:100000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



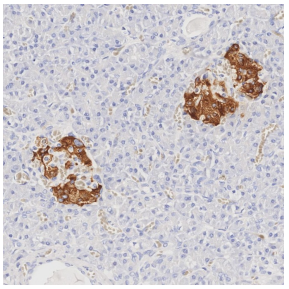
Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue slide using 66198-1-Ig (INS antibody) at dilution of 1:100000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



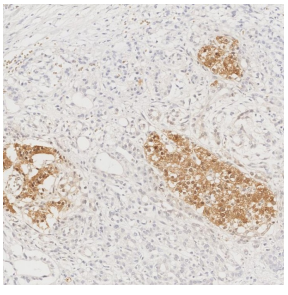
Immunohistochemical analysis of paraffin-embedded rat pancreas tissue slide using 66198-1-Ig (INS antibody) at dilution of 1:100000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

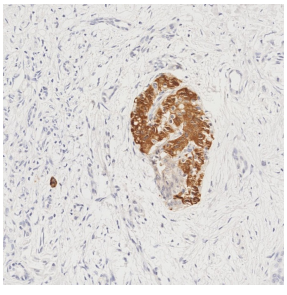


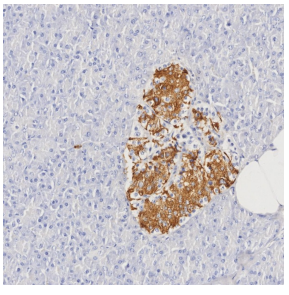
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 66198-1-Ig (INS antibody) at dilution of 1:20000. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 66198-1-Ig (INS antibody) at dilution of 1:20000. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).







Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 66198-1-Ig (INS antibody) at dilution of 1:20000. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66198-1-Ig (INS antibody) at dilution of 1:20000. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 66198-1-Ig (INS antibody) at dilution of 1:20000. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).