INS antibody

Catalog No: #38355

Package Size: #38355-1 50ul #38355-2 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

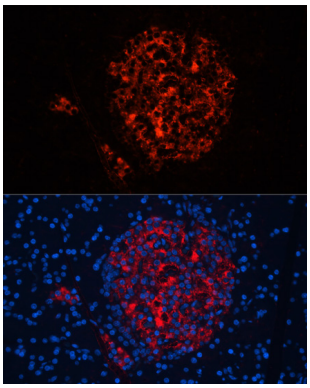
Description

Product Name	INS antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total INS protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human INS.
Conjugates	Unconjugated
Target Name	INS
Other Names	ILPR; IRDN; IDDM2; MODY10; Insulin;
Accession No.	Swiss-Prot#: P01308NCBI Gene ID: 3630
SDS-PAGE MW	12kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

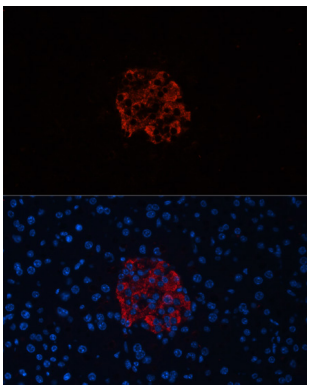
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:50 - 1:200

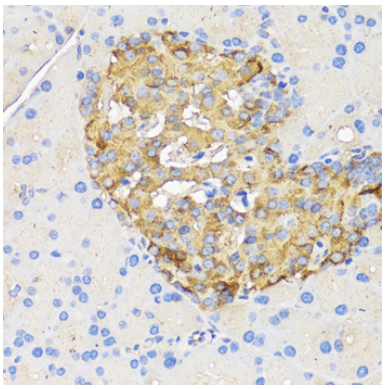
Images



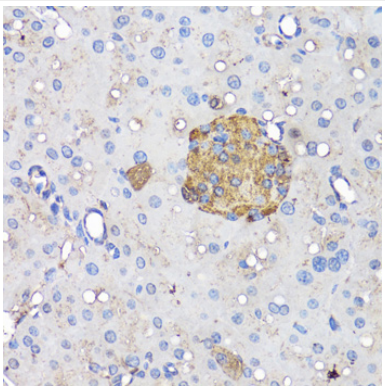
Immunofluorescence analysis of rat pancreas using INS at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of mouse pancreas using INS at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunohistochemistry of paraffin-embedded rat pancreatic islet using INS at dilution of 1:50 (40x lens).



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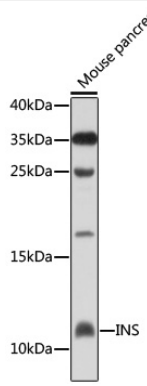

Western blot analysis of extracts of mouse pancreas, using INS at 1:1000 dilution.

Background

The maintenance of glucose homeostasis is an essential physiological process that is regulated by hormones. An elevation in blood glucose levels during feeding stimulates insulin release from pancreatic β cells through a glucose sensing pathway (1). Insulin is synthesized as a precursor molecule, proinsulin, which is processed prior to secretion. A- and B-peptides are joined together by a disulfide bond to form insulin, while the central portion of the precursor molecule is cleaved and released as the C-peptide. Insulin stimulates glucose uptake from blood into skeletal muscle and adipose tissue. Insulin deficiency leads to type 1 diabetes mellitus (2).

Published Papers

el at., Clinical and functional characterization of a novel KCNJ11 (c. 101G> A, p. R34H) mutation associated with maturity-onset diabetes mellitus of the young type 13. In Endocrine on 2024 Nov by Xiaoyu Lv, Jing Gao,et al..PMID:38761346, , (2024)

PMID:38761346

Lv Xiaoyu;Gao Jing;Yang Jingwen;Zou Ying;Chen Jun;Sun Yujing;Song Jia;Liu Yiran;Wang Liming;Xia Longqing;Yu Shijia;Wei Zichun;Chen Li;Hou Xinguo el at., Clinical and functional characterization of a novel KCNJ11 (c.101G > A, p.R34H) mutation associated with maturity-onset diabetes mellitus of the young type 13, , (2024)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.