

INS polyclonal antibody

Catalog # PAB14512 Size 500 uL

Specification

Product Description	Rabbit polyclonal antibody raised against INS.
Immunogen	Human INS.
Host	Rabbit
Reactivity	Human, Pig
Form	Liquid
Recommend Usage	Immunohistochemistry (1:50-1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (1% BSA, 0.05% sodium azide)
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)
- Immunocytochemistry

Gene Info — INS

Entrez GeneID [3630](#)

Gene Name	INS
Gene Alias	ILPR, IRDN
Gene Description	insulin
Omim ID	125850 176730
Gene Ontology	Hyperlink
Gene Summary	After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into two chains (peptide A and peptide B) that are covalently linked via two disulfide bonds. Binding of this mature form of insulin to the insulin receptor (INSR) stimulates glucose uptake. A variety of mutant alleles with changes in the coding region have been identified. There is a read-through gene, INS-IGF2, which overlaps with this gene at the 5' region and with the IGF2 gene at the 3' region. [provided by RefSeq]
Other Designations	OTTHUMP00000011161 OTTHUMP00000011162 OTTHUMP00000196038 proinsulin

Publication Reference

- [ICA512 signaling enhances pancreatic beta-cell proliferation by regulating cyclins D through STATs.](#)

Mziaut H, Kersting S, Knoch KP, Fan WH, Trajkovski M, Erdmann K, Bergert H, Ehehalt F, Saeger HD, Solimena M. PNAS 2008 Jan; 105(2):674.

Application: IHC-P, WB-Ce, Mice, rat, Mice pancreas, INS-1 cells

- [R-type Ca\(2+\)-channel-evoked CICR regulates glucose-induced somatostatin secretion.](#)

Zhang Q, Bengtsson M, Partridge C, Salehi A, Braun M, Cox R, Eliasson L, Johnson PR, Renstrom E, Schneider T, Berggren PO, Gopel S, Ashcroft FM, Rorsman P.

Nature Cell Biology 2007 Apr; 9(4):453.

Application: IF, Mouse, Mouse pancreatic δ -cells

- [Hyperinsulinemic hypoglycemia in adults with islet-cell hyperplasia and degranulation of exocrine cells of the pancreas.](#)

Weidenheim KM, Hinchey WW, Campbell WG Jr.

American Journal of Clinical Pathology 1983 Jan; 79(1):14.

Pathway

- [Insulin signaling pathway](#)
- [Maturity onset diabetes of the young](#)

- [mTOR signaling pathway](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Regulation of autophagy](#)
- [Type I diabetes mellitus](#)
- [Type II diabetes mellitus](#)

Disease

- [Addison Disease](#)
- [Adenomatous Polyps](#)
- [Alzheimer disease](#)
- [Amenorrhea](#)
- [Anorexia Nervosa](#)
- [Atherosclerosis](#)
- [Autoimmune Diseases](#)
- [Autoimmune polyglandular syndrome](#)
- [Bile Duct Neoplasms](#)
- [Birth Weight](#)
- [Body Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bulimia](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Colorectal Neoplasms](#)

- [Diabetes](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Diseases in Twins](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Gallbladder Neoplasms](#)
- [Gallstones](#)
- [Genetic Predisposition to Disease](#)
- [Hirsutism](#)
- [Hyperandrogenism](#)
- [Hypercholesterolemia](#)
- [Hyperinsulinism](#)
- [Hypertension](#)
- [Hypertriglyceridemia](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Liver Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Oligomenorrhea](#)
- [Osteoporosis](#)

- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Parkinson disease](#)
- [Polycystic Ovary Syndrome](#)
- [Polyendocrinopathies](#)
- [Pre-Eclampsia](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Stomach Neoplasms](#)
- [Thrombophilia](#)
- [Thyroid Diseases](#)
- [Thyroiditis](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)