INS monoclonal antibody, clone K36AC10

Catalog # MAB1502 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native INS.
Immunogen	Native purified human INS.
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Lyophilized
Purification	Affinity purification
Isotype	IgG1
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.4-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 1.2% sodium acetate (2 mg BSA, 0.01 mg sodium azide)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 1 mL of 1.2% sodium acetate or neutral PBS and concentration will be 100 u g/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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

Gene Info — INS

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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 ch ains (peptide A and peptide B) that are covalently linked via two disulfide bonds. Binding of this m ature form of insulin to the insulin receptor (INSR) stimulates glucose uptake. A variety of mutant al leles with changes in the coding region have been identified. There is a read-through gene, INS-I GF2, which overlaps with this gene at the 5' region and with the IGF2 gene at the 3' region. [provid ed by RefSeq
Other Designations	OTTHUMP00000011161|OTTHUMP00000011162|OTTHUMP00000196038|proinsulin

Publication Reference

- Frizzled3 Shapes the Development of Retinal Rod Bipolar Cells.

  Shen N, Qu Y, Yu Y, So KF, Goffinet AM, Vardi N, Xu Y, Zhou L.

  Investigative Ophthalmology & Visual Science 2016 May; 57(6):2788.

  Application: IF, Mouse, Retinal

- Localization of the human insulin gene to the distal end of the short arm of chromosome 11.

  Harper ME, Ullrich A, Saunders GF.

  PNAS 1981 Jul; 78(7):4458.

- The insulin gene is located on chromosome 11 in humans.

  Owerbach D, Bell GI, Rutter WJ, Shows TB.

  Nature 1980 Jul; 286(5768):82.

Pathway

- Insulin signaling pathway
- Maturity onset diabetes of the young

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- 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

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- 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

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- 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

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