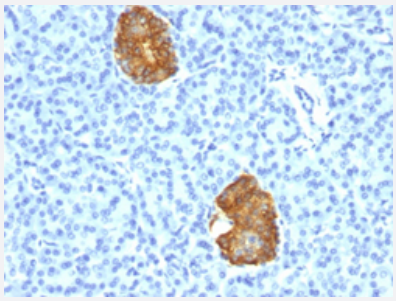
INS monoclonal antibody, clone E2-E3 + 2D11-H5

Catalog # MAB21259 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human pancreas with INS monoclonal antibody, clone E2-E3 + 2D11-H5 (Cat # MAB21259).

Specification

Product Description	Mouse monoclonal antibody raised against human INS.
Immunogen	Purified pig insulin, conjugated to KLH (E2-E3 & 2D11-H5).
Host	Mouse
Theoretical MW (kDa)	6
Reactivity	Human
Form	Liquid
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells in 0.1 mL) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.1-0.2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).
Storage Instruction	Store at 4°C.

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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)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human pancreas with INS monoclonal antibody, clone E2-E3 + 2D11-H5 (Cat # MAB21259).

- Immunofluorescence

- Flow Cytometry

Gene Info — INS

Entrez GeneID	3630
Protein Accession#	P01308
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

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
- Colorectal Neoplasms

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- 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

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- 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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