

Resource Summary Report

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Monoclonal Anti-Insulin antibody produced in mouse

RRID:AB_260137

Type: Antibody

Proper Citation

Sigma-Aldrich Cat# I2018, RRID:AB_260137

Antibody Information

URL: http://antibodyregistry.org/AB_260137

Proper Citation: Sigma-Aldrich Cat# I2018, RRID:AB_260137

Target Antigen: Insulin antibody produced in mouse

Host Organism: mouse

Clonality: monoclonal

Comments: Vendor recommendations: IgG1 Radioimmunoassay; Immunohistochemistry; Other; Western Blot; dot blot: suitable, immunohistochemistry (formalin-fixed, paraffin-embedded sections): 1:1,000

Antibody Name: Monoclonal Anti-Insulin antibody produced in mouse

Description: This monoclonal targets Insulin antibody produced in mouse

Target Organism: monkey, feline, rat, porcine, canine, pig, horse, rabbit, bovine, human, sheep

Antibody ID: AB_260137

Vendor: Sigma-Aldrich

Catalog Number: I2018

Record Creation Time: 20250819T223510+0000

Record Last Update: 20250820T024014+0000

Ratings and Alerts

- Used for immunohistochemistry by the Human Islet Research Network community. Contact(s): [Holger Russ](#), [Andrew Stewart](#), [Matthias Hebrok](#) - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for Monoclonal Anti-Insulin antibody produced in mouse.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 36 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Asuaje Pfeifer M, et al. (2026) Relevance of the KATP channel function for the basal insulin hypersecretion of islets from female NZO mice. Journal of the Endocrine Society, 10(7), bvag108.

Wang Z, et al. (2026) Pre-adaptation of stem cell-derived islet organoids to hypoxia via zinc transportation inhibition drives angiogenesis. Cell stem cell, 33(4), 676.

Liu QR, et al. (2026) Cell type-specific expression and subcellular localization of the human insulin upstream open reading frame (INSU) protein in pancreatic β -cells. The Journal of biological chemistry, 302(7), 113209.

Barlow GL, et al. (2025) The extra-islet pancreas supports autoimmunity in human type 1 diabetes. eLife, 13.

Valenti G, et al. (2025) Regulatory network analysis of Dclk1 gene expression reveals a tuft cell-ILC2 axis that inhibits pancreatic tumor progression. Cell reports, 44(6), 115734.

Krivova Y, et al. (2025) Detection of Insulin in Insulin-Deficient Islets of Patients with Type 1 Diabetes. Life (Basel, Switzerland), 15(1).

Beamish CA, et al. (2024) Osteocalcin protects islet identity in low-density lipoprotein receptor knockout mice on high-fat diet. The Journal of endocrinology, 261(1).

Tanaka Y, et al. (2024) Kinesin-1 mediates proper ER folding of the CaV1.2 channel and maintains mouse glucose homeostasis. EMBO reports, 25(11), 4777.

Esser N, et al. (2024) The islet tissue plasminogen activator/plasmin system is upregulated with human islet amyloid polypeptide aggregation and protects beta cells from aggregation-induced toxicity. Diabetologia, 67(9), 1897.

Fang Y, et al. (2024) Cytosolic pH is a direct nexus in linking environmental cues with insulin processing and secretion in pancreatic β cells. Cell metabolism.

Wang K, et al. (2023) Glucagon receptor blockage inhibits β -cell dedifferentiation through FoxO1. American journal of physiology. Endocrinology and metabolism, 324(1), E97.

Chung JY, et al. (2023) Pancreatic islet cell type-specific transcriptomic changes during pregnancy and postpartum. iScience, 26(4), 106439.

Cui X, et al. (2022) Pro- β -cell-derived β -cells contribute to β -cell neogenesis induced by antagonistic glucagon receptor antibody in type 2 diabetic mice. iScience, 25(7), 104567.

Wang J, et al. (2022) Isolation of mouse pancreatic islet Procr+ progenitors and long-term expansion of islet organoids in vitro. Nature protocols, 17(5), 1359.

Krivova YS, et al. (2022) Prenatal development of sympathetic innervation of the human pancreas. Annals of anatomy = Anatomischer Anzeiger : official organ of the Anatomische Gesellschaft, 240, 151880.

Gribben C, et al. (2021) Ductal Ngn3-expressing progenitors contribute to adult β cell neogenesis in the pancreas. Cell stem cell, 28(11), 2000.

Monica Shih MC, et al. (2021) Embryonic Steroids Control Developmental Programming of Energy Balance. Endocrinology, 162(12).

Wang Z, et al. (2021) microRNA-483 Protects Pancreatic β -Cells by Targeting ALDH1A3. Endocrinology, 162(5).

Früh E, et al. (2021) Glucagonotropic and Glucagonostatic Effects of KATP Channel Closure and Potassium Depolarization. Endocrinology, 162(1).

Corcos N, et al. (2021) Oral Fc-Coupled Preproinsulin Achieves Systemic and Thymic Delivery Through the Neonatal Fc Receptor and Partially Delays Autoimmune Diabetes. Frontiers in immunology, 12, 616215.