

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 33 mentions in open access literature.

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

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).
- Früh E, et al. (2021) Glucagonotropic and Glucagonostatic Effects of KATP Channel Closure and Potassium Depolarization. *Endocrinology*, 162(1).
- Wang Z, et al. (2021) microRNA-483 Protects Pancreatic β -Cells by Targeting ALDH1A3. *Endocrinology*, 162(5).
- Milani PG, et al. (2021) Whey protein enriched with Stevia rebaudiana fraction restores the pancreatic function of streptozotocin induced diabetic rats. *Journal of food science and technology*, 58(2), 805.
- 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.
- Wang D, et al. (2020) Long-Term Expansion of Pancreatic Islet Organoids from Resident Procr⁺ Progenitors. *Cell*, 180(6), 1198.
- Azoury ME, et al. (2020) Peptides Derived From Insulin Granule Proteins Are Targeted by CD8⁺ T Cells Across MHC Class I Restrictions in Humans and NOD Mice. *Diabetes*, 69(12), 2678.