

Insulin Monoclonal Antibody (ICBTACLS), eBioscience™

| Product Details | |
|------------------------|-------------------------|
| Size | 100 μg |
| Species Reactivity | Human, Mouse, Rat |
| Published Species | Rat, Mouse, Human |
| Host/Isotype | Mouse / IgG2a, kappa |
| Class | Monoclonal |
| Туре | Antibody |
| Clone | ICBTACLS |
| Conjugate | Unconjugated |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C |
| RRID | AB_2573014 |

| Applications | Tested Dilution | Publications |
|---|-----------------|----------------|
| Western Blot (WB) | 5 μg/mL | - |
| Immunohistochemistry (IHC) | - | 4 Publications |
| Immunohistochemistry (Paraffin) (IHC (P)) | 0.25 μg/mL | 1 Publication |
| Immunocytochemistry (ICC/IF) | - | 2 Publications |

Product Specific Information

Description: This ICBTACLS monoclonal antibody reacts with the hormone insulin, responsible for regulation of carbohydrate and fat metabolism. Blood glucose levels are maintained by insulin. Insulin secretion from pancreatic beta-cells within the islets of Langerhans results in uptake of excess glucose from the blood into organs and its storage in the form of glycogen. Patients with type 1 diabetes have an autoimmune destruction of insulin-producing beta-cells in the pancreas, resulting in insulin deficiency and elevated levels of blood glucose. Patients with type 2 diabetes have insulin resistance where insulin becomes less effective at reducing the amount of blood glucose. Insulin is also important for proper endothelial cell function in with respect to vascular elasticity in response to changing blood pressure and plays a role in cognition, learning, and memory.

The ICBTACLS antibody recognizes human, mouse, and rat insulin.

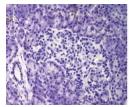
Applications Reported: This ICBTACLS antibody has been reported for use in western blotting, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, and microscopy.

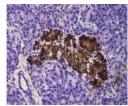
Applications Tested: This ICBTACLS antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded tissue using low or high pH antigen retrieval and can be used at less than or equal to 0.25 µg/mL. This ICBTACLS antibody has been tested by western blot of non-reduced pancreatic tissue lysate and can be used at less than or equal to 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Product Images For Insulin Monoclonal Antibody (ICBTACLS), eBioscience™





Insulin Antibody (14-9769-82) in IHC (P)

Immunohistochemistry of formalin-fixed paraffin embedded human pancreas using 0.25 μ g/mL of Mouse IgG2a K Isotype Control Purified (left) or 0.25 μ g/mL of Anti-Insulin Purified (right) followed by 10 μ g/mL of Anti-Mouse IgG Biotin, Avidin-HRP, and DAB visualization.Nuclei are counterstained with hematoxylin.

☐ 7 References

Immunohistochemistry (4)

Iranian journal of basic medical sciences

Alterations in hippocampal neurogenesis and hippocampal insulin signaling pathway in rat with metabolic syndrome.

"14-9769-82 was used in Immunohistochemistry to conclude that that the insulin signaling pathway may have an effect on the decreased neurogenesis in the MetS group."

Authors: Bayram P,Billur D,Kizil S,Caliskan H,Can B

Year 2022

Species Rat

Dilution 1:200

Journal of molecular endocrinology

Loss of urotensin II receptor diminishes hyperglycemia and kidney injury in streptozotocin-treated mice.

"14-9769-82 was used in Immunohistochemistry to evaluate the effect of UT deletion on the development of hyperglycemia and diabetic kidney disease (DKD) in streptozotocin (STZ)-treated mice."

Authors: Peixoto-Neves D, Kanthakumar P, Kumar R, Soni H, Adebiyi A

Year 2022

Species Mouse

Dilution 1:100

View more IHC references on thermofisher.cn

Immunohistochemistry (Paraffin) (1)

Oxidative medicine and cellular longevity

Black Seed Thymoquinone Improved Insulin Secretion, Hepatic Glycogen Storage, and Oxidative Stress in Streptozotocin-Induced Diabetic Male Wistar Rats.

"Published figure using Insulin monoclonal antibody (Product # 14-9769-82) in Immunohistochemistry (Paraffin)" Authors: Abdelrazek HMA, Kilany OE, Muhammad MAA, Tag HM, Abdelazim AM

Year 2018

Immunocytochemistry (2)

Journal of applied biomedicine

Exenatide prevents statin-related LDL receptor increase and improves insulin secretion in pancreatic beta cells (1.1E7) in a protein kinase Adependent manner.

"14-9769-82 was used in Immunocytochemistry to explore the impact of atorvastatin on pancreatic islet beta cells line (1.1.E7)."

 $Authors: Buldak \ L, Machnik \ G, Skudrzyk \ E, Boldys \ A, Maliglowka \ M, Kosowski \ M, Basiak \ M, Buldak \ RJ, Okopien \ Buldak \ R$

Year 2022

Species Human

More applications with references on thermofisher.cn

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