



Mouse Anti-Human Insulin monoclonal antibody, clone JID720 (CABT-L2891)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Product Overview | This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods. |
| Specificity | Human Insulin |
| Isotype | IgG |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Clone | JID720 |
| Conjugate | Unconjugated |
| Applications | IHC |
| Reconstitution | The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range. |
| Positive Control | Pancreas |
| Format | Liquid |
| Size | Predilute: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml |
| Buffer | Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA |

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| Preservative | < 0.1% Sodium Azide |
| Storage | Store at 2-8°C. Do not freeze. |
| Ship | Wet ice |

BACKGROUND

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| Introduction | Insulin is a polypeptide hormone produced by the pancreas in the beta cells of the Islets of Langerhans. Its biological functions include regulating the storage and release of glucose, as well as promoting glycogen storage, triglyceride formation, and protein synthesis. Insulin has been clinically indicated in a number of conditions, including tumors of beta cell origin. The presence of insulin in the cytoplasm of islet cell tumors is indicative of functional insulinomas, while a deficiency of insulin results in diabetes mellitus. |
| Keywords | INS;insulin;proinsulin;preproinsulin; |

GENE INFORMATION

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| Gene Name | INS insulin [Homo sapiens (human)] |
| Official Symbol | INS |
| Synonyms | INS; insulin; IDDM; ILPR; IRDN; IDDM1; IDDM2; MODY10; proinsulin; preproinsulin; |
| Entrez Gene ID | 3630 |
| Protein Refseq | NP_000198 |
| UniProt ID | I3WAC9 |
| Chromosome Location | 11p15.5 |
| Pathway | AGE/RAGE pathway; AMPK signaling pathway; ATF-2 transcription factor network; Adipogenesis; Aldosterone-regulated sodium reabsorption; Amyloids; Arf6 trafficking events; Cardiac Progenitor Differentiation; |
| Function | hormone activity; identical protein binding; insulin receptor binding; insulin-like growth factor receptor binding; protease binding; protein binding; |