

ARG63041 anti-Insulin antibody [IN-05]

Package: 100 µg
Store at: -20°C

Summary

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| Product Description | Mouse Monoclonal antibody [IN-05] recognizes Insulin |
| Tested Reactivity | Hu, Bov, Pig |
| Tested Application | ELISA, FuncSt, ICC/IF, IHC-P, RIA |
| Specificity | The clone IN-05 reacts with insulin, one of the major regulatory endocrine hormones of intermediate metabolism, normally secreted by the beta cells (a type of islet cells) of the pancreas; it is also present in tumors of B cell origin such as insulinoma. |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | IN-05 |
| Isotype | IgG1 |
| Target Name | Insulin |
| Species | Pig |
| Immunogen | Porcine insulin. |
| Conjugation | Un-conjugated |
| Alternate Names | IDDM; IDDM2; IDDM1; ILPR; MODY10; Insulin; IRDN |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|-----------------|
| | ELISA | Assay-dependent |
| | FuncSt | Assay-dependent |
| | ICC/IF | Assay-dependent |
| | IHC-P | Assay-dependent |
| | RIA | Assay-dependent |
| Application Note | Functional studies: The clone IN-05 blocks binding of insulin to the receptor. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

Properties

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| Form | Liquid |
| Purification | Purified from ascites by protein-A affinity chromatography. |
| Purity | > 95% (by SDS-PAGE) |
| Buffer | PBS (pH 7.4) and 15 mM Sodium azide |

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| Preservative | 15 mM Sodium azide |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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| Database links | GeneID: 3630 Human GeneID: 397415 Pig Swiss-port # P01308 Human Swiss-port # P01315 Pig |
| Gene Symbol | INS |
| Gene Full Name | insulin |
| Background | Insulin and glucagon are pancreatic endocrine hormones secreted by islet cells within the pancreas. The stimulus for insulin secretion is a HIGH blood glucose. Deficiency of insulin results in diabetes mellitus, one of the leading causes of morbidity and mortality in the general population. |
| Function | Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver. [UniProt] |
| Research Area | Cell Biology and Cellular Response antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody |
| Calculated Mw | 12 kDa |