

ARG43786
anti-Insulin antibody [IRDN/794]Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [IRDN/794] recognizes Insulin
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P
Specificity	These antibodies cross-react with human proinsulin, bovine insulin (30%) and porcine insulin. No cross-reaction with free C-peptide.
Host	Mouse
Clonality	Monoclonal
Clone	IRDN/794
Isotype	IgG1, kappa
Target Name	Insulin
Species	Human
Immunogen	Recombinant insulin protein was used as the immunogen for the Insulin antibody.
Conjugation	Un-conjugated
Alternate Names	IDDM; IDDM2; IDDM1; ILPR; MODY10; Insulin; IRDN

Application Instructions

Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 20 min followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
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Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA.
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 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

Gene Symbol	INS
Gene Full Name	insulin
Background	After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into three peptides: the B chain and A chain peptides, which are covalently linked via two disulfide bonds to form insulin, and C-peptide. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. A multitude of mutant alleles with phenotypic effects have been identified. There is a read-through gene, INS-IGF2, which overlaps with this gene at the 5' region and with the IGF2 gene at the 3' region. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]
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
PTM	Cleavage on pair of basic residues; Disulfide bond
Cellular Localization	Secreted