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Product datasheet for TA319541

Insulin (INS) Mouse Monoclonal Antibody [Clone ID: 2D11.H5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2D11.H5
Applications:	Dot, ELISA
Recommend Dilution:	ELISA: 1:5,000 - 1:25,000, WB: 1:50 - 1:200, IHC: 1:50 - 1:200
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	This protein A purified monoclonal antibody was produced by repeated immunizations with purified human insulin coupled to bovine serum albumin (BSA).
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1 mg/ml
Gene Name:	insulin
Database Link:	NP_000198 Entrez Gene 3630 Human
Synonyms:	IDDM; IDDM1; IDDM2; ILPR; IRDN; MODY10
Note:	Recognizes the 51 amino acid (6 kDa) insulin polypeptide composed of A and B chains. Proinsulin, which has very little biological activity, is cleaved by proteases within its cell of origin into the insulin molecule and the C-peptide basic residue. Insulin enhances membrane transport of glucose, amino acids, and certain acids. It also promotes glycogen storage, formation of triglycerides, and synthesis of proteins and nucleic acids. The main storage site for insulin is the pancreatic islets. Antibodies to insulin are important as b-cell and tumor (insulinoma) markers).
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Insulin signaling pathway, Maturity onset diabetes of the young, mTOR signaling pathway, Oocyte meiosis, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Regulation of autophagy, Type I diabetes mellitus, Type II diabetes mellitus

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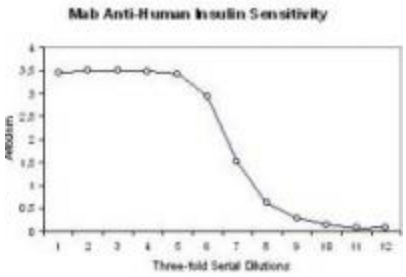
Product images:



ELISA Results of Mab anti-Insulin antibody tested against human insulin by ELISA. Each well was coated with 0.1?g of conjugate. The starting concentration of antibody in the dilution series was 10 ?g/ml. Each point on the Y-axis represents a 3-fold dilution. The midpoint of the titration curve represents approx-imately 5ng/ml antibody or a 1:200,000 dilution from the stock concentration. HRP conjugated Gt-a-Mouse IgG H&L (p/n 610-103-121) and TMB substrate were used for detection.

Dot blotting. Mab anti-Insulin antibody (clone 2D11.H5) to detect human insulin by dot blot. Each dot blot represents 1 µl of non-denatured human insulin at various dilutions starting at 1.0 ug/ml spotted on to nitrocellulose. A 1:400 dilution of Mab anti-Insulin is used for 2 hour followed by detection using a 1:5,000 dilution of IRDyeTM800 conjugated Goat-a-Mouse IgG [H&L].