Mouse Insulin / IRDN Monoclonal Antibody | anti-INS antibody

Insulin / IRDN (beta-Cell & Insulinoma Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62500	**Mouse**	**Human, Cow, Pig, Mouse**	**Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay**

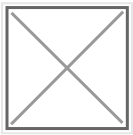
PRODUCT SYNONYMS

Insulin / IRDN; Monoclonal Antibody; Insulin / IRDN (beta-Cell & Insulinoma Marker) Mouse Monoclonal Antibody; IDDM2; ILPR; IRDN; MODY10; Proinsulin; anti-INS antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Cow, Pig, Mouse
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	2D11-H5; same as INS05
Specificity	Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through the C-peptide. Proinsulin, which has very little biological activity, is cleaved by proteases within its cell of origin into the insulin molecule and the C-terminal basic residue. Insulin enhances membrane transport of glucose, amino acids, and certain ions. It also promotes glycogen storage, formation of triglycerides, and synthesis of proteins and nucleic acids. Deficiency of insulin results in diabetes mellitus. The main storage site for insulin is the pancreatic islets. Antibodies to insulin are important as beta-cell and insulinoma marker.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	110
Applicable Applications for anti-INS antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cytoplasmic
Immunogen	Purified pig insulin, conjugated to KLH
Hu-Chromosome Location	11p15.5
Positive Control	MIA PaCa-2 cells or Pancreas
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Pancreas stained with Insulin Monoclonal Antibody (2D11-H5).

ADDITIONAL INFORMATION

References	de la Tour, D., et al. 2001. Mol. Endoc. 15: 476-483. Rajagopal, J., et al. 2003. Science 299: 363. Morisset, J., et al. 2003. J. Histochem. Cytochem. 51: 1501-1513.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557671
NCBI GeneID	3630
NCBI Accession #	NP_000198.1
NCBI GenBank Nucleotide #	NM_000207.2
UniProt Accession #	P01308; Q5EEX2
Molecular Weight	6kDa
NCBI Official Full Name	insulin preproprotein
NCBI Official Synonym Full Names	insulin
NCBI Official Symbol	INS
NCBI Official Synonym Symbols	IDDM; ILPR; IRDN; IDDM1; IDDM2; MODY10
NCBI Protein Information	insulin
UniProt Protein Name	Insulin
UniProt Gene Name	**INS**
UniProt Entry Name	INS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/insulin-irdn-antibody-clone-2d11-h5-same-as-ins05-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/62500