Datasheet for ABIN94408

anti-Insulin antibody

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Overview

Quantity:	100 µg
Target:	Insulin (INS)
Reactivity:	Human, Pig, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Insulin antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Radioimmunoassay (RIA)

Product Details

Purpose:	Anti-Insulin Purified
Immunogen:	Porcine insulin.
Clone:	IN-05
Isotype:	IgG1
Specificity:	The antibody 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.
Cross-Reactivity (Details):	Human, Bovine, Porcine
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	Insulin (INS)
Alternative Name:	Insulin (INS Products)
Background:	Proinsulin,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.,IDDM, INS
Gene ID:	3630
UniProt:	P01308
Pathways:	NF-kappaB Signaling, RTK Signaling, Positive Regulation of Peptide Hormone Secretion, Peptide Hormone Metabolism, Hormone Activity, Carbohydrate Homeostasis, ER-Nucleus Signaling, Regulation of Carbohydrate Metabolic Process, Feeding Behaviour, Autophagy, Negative Regulation of intrinsic apoptotic Signaling, Brown Fat Cell Differentiation, Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Meesaragandla, Karanth, Janke, Delcea: "Biopolymer-coated gold nanoparticles inhibit human

insulin amyloid fibrillation." in: **Scientific reports**, Vol. 10, Issue 1, pp. 7862, (2020) (PubMed).

Horejsí, Hilgert, Kristofová, Satayalai: "Murine hybridoma monoclonal antibodies against insulin: cross-reactivity with insulins of three species and blocking of insulin binding to its receptor." in: **Immunology letters**, Vol. 8, Issue 5, pp. 279-83, (1985) (PubMed).