

Datasheet for ABIN722608
anti-Insulin antibody (FITC)



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1 Publication

Overview

Quantity:	100 µL
Target:	Insulin (INS)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Insulin antibody is conjugated to FITC
Application:	Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	Recombinant human Insulin protein
Clone:	1G11
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Purified by Protein G.

Target Details

Target:	Insulin (INS)
Alternative Name:	Insulin (INS Products)
Background:	Synonyms: ILPR, INS, Insulin A chain, Insulin B chain, Insulin A chain, Insulin precursor, IRDN,

Target Details

Proinsulin, Proinsulin precursor, IDDM2, INS_HUMAN, MODY10.

Background: Insulin is a pancreatic hormone that regulates glucose and is involved in the synthesis of protein and fat. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver. Heterodimer of a B chain and an A chain linked by two disulfide bonds. Belongs to the insulin family. The insulin-like growth factors, IGF-I and IGF-II (also designated somatomedin C and multiplication stimulating activator, respectively), share approximately 76 % sequence identity and are 50 % related to pro-insulin. IGF-I and IGF-II are nonglycosylated, single chain proteins of 70 and 76 amino acids in length, respectively. IGF-I functions as an autocrine regulator of growth in various, whereas the function of IGF-II is less well defined.

Gene ID: 3630

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: IF(IHC-P) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Handling

Expiry Date: 12 months

Publications

Product cited in: Zöllner, Jouni, Panzer, Khadour, Janzen, Wesche, Ten Berg, Schellong, Heinken, Greinacher, Bakchoul: "Platelet activation in the presence of neutral protamine Hagedorn insulin: a new feature of antibodies against protamine/heparin complexes." in: **Journal of thrombosis and haemostasis : JTH**, (2016) ([PubMed](#)).