

Insulin Polyclonal Antibody

Catalog No: YT6017

Reactivity: Human; Mouse; Rat

Applications: IHC;IF;ELISA

Target: Insulin

Fields: >>MAPK signaling pathway;>>Ras signaling pathway;>>Rap1 signaling

pathway;>>cGMP-PKG signaling pathway;>>HIF-1 signaling pathway;>>FoxO

signaling pathway;>>Phospholipase D signaling pathway;>>Oocyte

meiosis;>>Autophagy - animal;>>mTOR signaling pathway;>>PI3K-Akt signaling

pathway;>>AMPK signaling pathway;>>Longevity regulating

pathway;>>Longevity regulating pathway - multiple species;>>Regulation of actin

cytoskeleton;>>Insulin signaling pathway;>>Insulin secretion;>>Ovarian steroidogenesis;>>Progesterone-mediated oocyte maturation;>>Prolactin signaling pathway;>>Regulation of lipolysis in adipocytes;>>Type II diabetes mellitus;>>Insulin resistance;>>Non-alcoholic fatty liver disease;>>Type I diabetes mellitus;>>Maturity onset diabetes of the young;>>Aldosterone-

regulated sodium reabsorption;>>Alzheimer disease;>>Prostate

cancer;>>Diabetic cardiomyopathy

Gene Name: INS

Protein Name: Insulin [Cleaved into: Insulin B chain; Insulin A chain]

Human Gene Id: 3630

Human Swiss Prot

P01308

No:

Immunogen : Synthetic peptide from human protein at AA range: 30-70

Specificity: The antibody detects endogenous Insulin

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : IHC 1:50-200, ELISA 1:10000-20000. IF 1:50-200

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Cell Pathway: Oocyte meiosis;Regulation of autophagy;mTOR;Regulates Actin and

Cytoskeleton;Insulin Receptor;Progesterone-mediated oocyte maturation;Type II

diabetes mellitus; Type I diabetes mellitus; Maturity onset

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: disease:Defects in INS are the cause of familial hyperproinsulinemia

[MIM:176730].,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.,function:Preptin undergoes glucose-mediated co-secretion with insulin, and acts as physiological amplifier of glucose-mediated insulin secretion. Exhibits osteogenic properties by increasing osteoblast mitogenic activity through phosphoactivation of MAPK1 and MAPK3.,function:The insulin-like growth factors possess growth-promoting activity. In vitro, they are potent mitogens for cultured cells. IGF-II is influenced by placental lactogen and may play a role in

fetal development., mass spectrometry: PubMed:12586351;

PubMed:15359740, online information: Clinical information on Eli Lilly insu

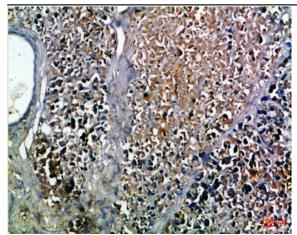
Subcellular Location :

Secreted.

Expression:

Blood, Liver, Muscle, Pancreas,

Products Images



Immunohistochemical analysis of paraffin-embedded Humanpancreas, antibody was diluted at 1:100