

## Insulin Polyclonal Antibody

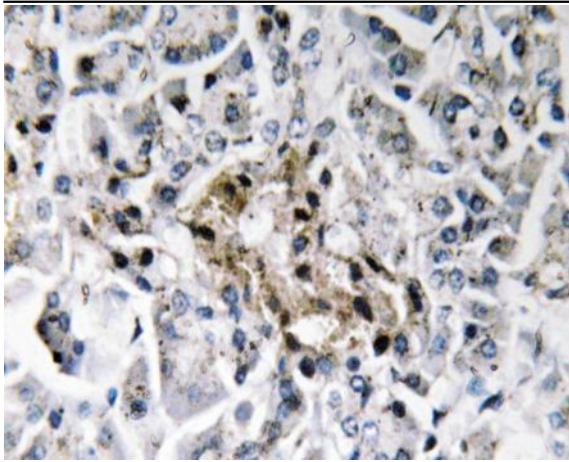
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| <b>Catalog No :</b>          | YT2357  |
| <b>Reactivity :</b>          | Human;Mouse;Rat   |
| <b>Applications :</b>        | WB;IHC;IF;ELISA   |
| <b>Target :</b>              | Insulin   |
| <b>Fields :</b>              | >>MAPK signaling pathway;>>Ras 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 |
| <b>Gene Name :</b>           | INS   |
| <b>Protein Name :</b>        | Insulin   |
| <b>Human Gene Id :</b>       | 3630  |
| <b>Human Swiss Prot No :</b> | P01308  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human Insulin. AA range:49-98   |
| <b>Specificity :</b>         | Insulin Polyclonal Antibody detects endogenous levels of Insulin protein.   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |

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| <b>Dilution :</b>             | WB 1:500-2000 IHC 1:100 - 1:300. ELISA: 1:10000. IF 1:50-200   |
| <b>Purification :</b>         | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Concentration :</b>        | 1 mg/ml  |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)   |
| <b>Molecularweight :</b>      | 12kD   |
| <b>Cell Pathway :</b>         | 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  |
| <b>Background :</b>           | 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],  |
| <b>Function :</b>             | 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 |
| <b>Subcellular Location :</b> | Secreted.  |
| <b>Expression :</b>           | Blood,Liver,Muscle,Pancreas,   |

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## Products Images



Immunohistochemistry analysis of Insulin antibody in paraffin-embedded human pancreas tissue.