

Insulin (ABT242R) rabbit mAb

Catalog No :	YM7141
Reactivity :	Human;Mouse;(predicted: Rat)
Applications :	IHC;WB; 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 No :	P01308
Immunogen :	Synthesized peptide derived from human Insulin AA range:25-110
Specificity :	This antibody detects endogenous levels of Insulin
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, Rabbit IgG1, Kappa
Dilution :	IHC 1:100-500, WB 1:500-1000, ELISA 1:5000-20000

Purification :	Recombinant Expression and Affinity purified
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	12kD
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 :	Cytoplasmic
Expression :	Blood,Liver,Muscle,Pancreas,
Tag :	hot,recombinant
Sort :	8583
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

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