



Insulin (PT2015) mouse mAb

Catalog No	YP-Ab-15406
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IHC;WB;IF
Gene Name	INS
Immunogen	Synthesized peptide derived from human Insulin
Specificity	This antibody detects endogenous levels of human Insulin. Heat-induced epitope retrieval (HIER) Citrate buffer of pH6.0 was highly recommended as antigen repair method in paraffin section
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Mouse, Monoclonal/IgG2b, Kappa
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	IHC-p 1:100-500, WB 1:200-1000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	insulin;INS;Insulin [Cleaved into: Insulin B chain;Insulin A chain]
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Secreted.
Tissue Specificity	Blood,Liver,Muscle,Pancreas,
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

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],

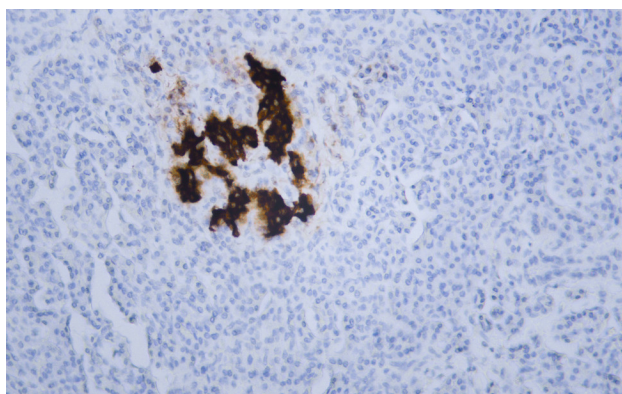
matters needing attention

Avoid repeated freezing and thawing!

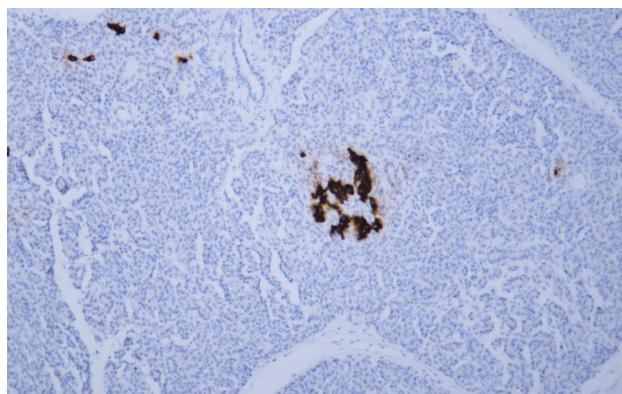
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Human pancreas tissue was stained with Anti-Insulin (ABT189) Antibody



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Whole cell lysates were separated by 15% SDS-PAGE, and the membrane was blotted with anti-Insulin(ABT189) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: Insulin recombinant protein Predicted band size: 12kDa Observed band size: 9kDa