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Anti-Insulin Antibody (5A6A4)

Mouse Monoclonal Antibody
Catalog # ABV12096

Product Information

Application	E
Primary Accession	P01308
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b, κ
Clone Names	5A6A4
Calculated MW	11981

Additional Information

Gene ID	3630
Positive Control	ELISA
Other Names	Insulin, Insulin B chain, Insulin A chain, INS
Target/Specificity	Insulin
Antibody Form	Liquid
Appearance	Colorless liquid
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Anti-Insulin Antibody (5A6A4) is for research use only and not for use in diagnostic or therapeutic procedures.

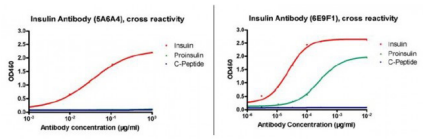
Protein Information

Name	INS
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.
Cellular Location	Secreted.
Tissue Location	Expressed by pancreatic beta-cells (at protein level).

Background

Insulin is one of the major regulatory hormones of intermediate metabolism throughout the body. It regulates the cellular uptake, utilization, and storage of glucose, amino acids, and fatty acids and inhibits the breakdown of glycogen, protein, and fat. Proinsulin is the prohormone precursor to insulin made in pancreas. It is processed by a series of proteases to form mature insulin. Mature insulin has 35 fewer amino acids; 4 are removed altogether, and the remaining 31 form the C-Peptide. The C-Peptide is abstracted from the center of the proinsulin sequence; the two other ends (α and β chains) remain connected by disulfide bonds. Deficiency of insulin results in diabetes mellitus, one of the leading causes of morbidity and mortality in the general population. Insulin is also present in tumors of B cell origin such as insulinoma. Insulin Antibody (6E9F1) is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with human recombinant Insulin expressed in yeast

Images



Cross*reactivity of Insulin monoclonal antibodies by Indirect ELISA

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.