

Anti-C-Peptide Antibody (4C2F10)

Mouse Monoclonal Antibody

Catalog # ABV12092

Product Information

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|--------------------------|------------------------|
| Application | E |
| Primary Accession | P01308 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | Mouse IgG1, κ |
| Clone Names | 4C2F10 |
| Calculated MW | 11981 |

Additional Information

| | |
|-------------------------------------|--|
| Gene ID | 3630 |
| Positive Control | ELISA |
| Other Names | Insulin, Insulin B chain, Insulin A chain, INS |
| Target/Specificity | C-peptide |
| Antibody Form | Liquid |
| Appearance | Colorless liquid |
| Reconstitution & Storage | -20 °C |
| Background Descriptions | |
| Precautions | Anti-C-Peptide Antibody (4C2F10) is for research use only and not for use in diagnostic or therapeutic procedures. |

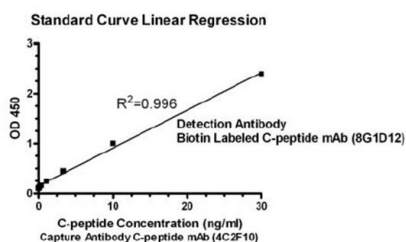
Protein Information

| | |
|--------------------------|---|
| 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

C-peptide serves as an important linker between A-chain and B-chain of insulin and facilitates the efficient assembly, folding, and processing of insulin in the endoplasmic reticulum. Equimolar amounts of C-peptide and insulin are stored in secretory granules of the pancreatic beta cells and both are eventually released to the portal circulation. The sole interest in C-peptide was as a marker of insulin secretion. Newly diagnosed diabetes patients often get their C-peptide levels measured as a means of distinguishing type 1 and type 2 diabetes. C-peptide is also used for determining the possibility of gastrinomas associated with Multiple Endocrine Neoplasm syndromes (MEN 1). C-Peptide Antibody is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with human C-peptide conjugated to KLH.

Images



Antibody pairs analysis of C-peptide monoclonal antibodies by Sandwich ELISA

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