

DESCRIPTION

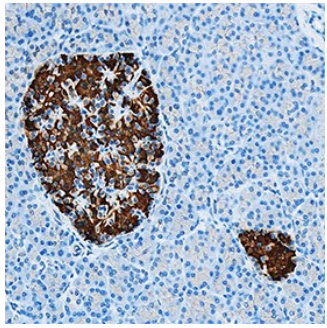
Species Reactivity	Human
Specificity	Detects human C-Peptide in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 915612
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human C-Peptide synthetic peptide EAEDLQVGQVELGGGPGAGSLQPLALEGSLQ Accession # P01308
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Immunohistochemistry</p> 	<p>C-Peptide in Human Pancreas. C-Peptide was detected in immersion fixed paraffin-embedded sections of human pancreas using Mouse Anti-Human C-Peptide Monoclonal Antibody (Catalog # MAB80561) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to islets. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Insulin is a peptide hormone that facilitates the cellular uptake of glucose by regulating the appearance of membrane glucose transporters. The single chain insulin propeptide consists of a 30 amino acid B chain (aa 25-54), a C-peptide (aa 55-89), and a 21 aa A chain (aa 90-110). Removal of the C-peptide by proteolysis enables the formation of mature Insulin, a disulfide-linked heterodimer of the A and B chains. Circulating C-peptide levels are elevated in hyperinsulinism, obesity, and type II diabetes. The human Insulin C-peptide shares 61% and 68% aa sequence identity with mouse and rat Insulin C-peptide, respectively.