

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 EAEDLQVGQVELGGPGAGSLQLALEGSLQ Accession # P01308
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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