



Mouse anti-C-Peptide Monoclonal antibody (DCABH-20041)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Monoclonal Antibody to Human C-peptide
Antigen Description	The connecting peptide, or C-peptide, is a short 31-amino-acid protein that connects insulin's Achain to its B-chain in the proinsulin molecule. In the insulin synthesis pathway, first preproinsulin is translocated into the endoplasmic reticulum of beta cells of the pancreas with an A-chain, a C-peptide, a B-chain, and a signal sequence. The signal sequence is cleaved from the N-terminus of the peptide by a signal peptidase, leaving proinsulin. After proinsulin is packaged into vesicles in the Golgi apparatus, the C-peptide is removed, leaving the A-chain and B-chain, bound together by disulfide bonds, that constitute the insulin molecule.
Specificity	The binding site is located within the range 12-30, with the most critical amino acids for binding being LEGSL (26-30). There was no binding signal detected with peptides without the amino acid L(26). Cross-reactivity: Human proinsulin (recombinant) 0.93 %
Target	C-Peptide
Immunogen	Recombinant C-peptide.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Affinity Constant	Kd > 1 x 10^9
Purification	>90% pure. Protein A Sepharose chromatography. Purity is tested by electrophoresis

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Conjugate	Unconjugated
Applications	ELISA(Cap)
Format	Purified, Liquid
Concentration	2.0mg/ml (OD280nm, E0.1% = 1.4)
Size	1 mg
Size Buffer	1 mg 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN3 as a preservative

BACKGROUND

Introduction	The connecting peptide, or C-peptide, is a short 31-amino-acid protein that connects insulin's A-chain to its B-chain in the proinsulin molecule. In the insulin synthesis pathway, first preproinsulin is translocated into the endoplasmic reticulum of beta
Keywords	Anti-Rat C-peptide I & II, N-terminal MAb; C-peptide; Mouse Anti-Rat C-peptide I & II, N-terminal Monoclonal Antibody; Ins; Ins1; insulin1; Mouse Anti-Rat INS1 Molecule Monoclonal Antibody; INS1 MAb; INS1 antibody; INS1 molecule MAb; NM_019129; NP_062002

GENE INFORMATION

Entrez Gene ID	<u>3630</u>
UniProt ID	I3WAC9