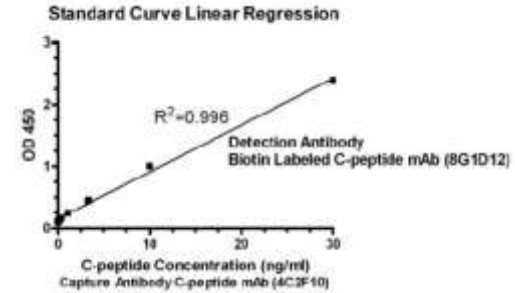


Anti-C-Peptide Antibody (4C2F10)

CATALOG NO:	A1361-500
AMOUNT:	500 µg
IMMUNOGEN:	Human C-peptide conjugated to KLH
CLONALITY:	Monoclonal
CLONE:	4C2F10
HOST/ISOTYPE:	Mouse IgG1, κ
PURIFICATION:	Protein A purification
FORM:	Liquid
CONCENTRATION:	0.5 mg/ml
FORMULATION:	In PBS buffer, pH 7.4, containing 0.02% sodium azide
STORAGE CONDITIONS:	For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
SENSITIVITY:	Less than 0.1 ng/ml by sandwich ELISA
SPECIFICITY:	C-peptide monoclonal antibodies (Clone 3E8D9, 8E10D3, 4C2F10 and 8G1D12) recognize human C-peptide and don't cross-react with proinsulin and insulin.
DESCRIPTION:	<p>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).</p> <p>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.</p>
APPLICATION:	These antibodies are perfect choice for in vitro diagnostic assay development. They are prepared for non-clinical research use only. The recommended pairs (3E8D9-8E10D3 and 4C2F10-8G1D12) are based on our R&D results.



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

General conditions for sandwich ELISA:

1. Microplate was coated with a capture antibody against C-peptide, followed by 3 washing cycles.
2. Incubation with C-peptide followed by 3 washing cycles.
3. Incubation with Biotin conjugated detection antibody against C-peptide, followed by 3 washing cycles.
4. Incubation with Streptavidin-HRP, followed by 3 washing cycles.
5. Peroxidase activity was determined using Colorimetric detection.

RELATED PRODUCTS:

- C-Peptide (human/mouse/rat) EIA Kit (**Cat. No. K4757**)
- C-Peptide Antibody (Clone HCP-B2) (**Cat. No. 3103**)
- C-Peptide Blocking Peptide (**Cat. No. 3277BP**)
- C-Peptide Antibody (**Cat. No. 3277**)
- C-reactive/CRP Monoclonal Antibody (**Cat. No. A1208**)

FOR RESEARCH USE ONLY! Not to be used on humans.