



Mouse Anti-Human Carboxypeptidase B1 monoclonal antibody, clone NN17 (CABT- ZB439)

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

PRODUCT INFORMATION

Specificity	It reacts with Human Carboxypeptidase B1 It has no cross-reactivity in ELISA with Mouse CPB1, Human CPA1, Human CPA2, Human CPE.
Target	CPB1
Immunogen	Recombinant Human CPB1 protein
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	NN17
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA, ELISA(cap) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB439 - CABT-ZB837 This antibody will detect Carboxypeptidase B1 in antibody pair set. [ABPR-ZB013]
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CPB1. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.

Format	Purified, Liquid
Concentration	Lot specific
Size	50 µL, 100 µL, 200 µL, 1 mL
Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	Carboxypeptidase B1, also well known as pancreatic procarboxypeptidase B (PCPB), is a highly pancreas -specific protein (PASP), and has been identified previously as a serum marker for acute pancreatitis and pancreatic graft rejection. As the prototype for those human exopeptidases that cleave off basic C-terminal residues, CPB1 specifically cleaves the C-terminal Arg and Lys residues with a preference for Arg. The B1 and B2 forms of procarboxypeptidase B differ from each other mainly in isoelectric point. The deduced amino acid sequence of PCPB predicts a 416-amino acid preproenzyme consisting of a 15-aa signal peptide, a 95-aa activation peptide and a 37-aa mature chain. The secreted PCPB zymogen is converted to enzymatically active CPB1 by limited proteolysis by trypsin.
Keywords	CPB1; carboxypeptidase B1 (tissue); carboxypeptidase B; procarboxypeptidase B

GENE INFORMATION

Synonyms	CPB1; carboxypeptidase B1 (tissue); carboxypeptidase B; procarboxypeptidase B
Entrez Gene ID	1360
UniProt ID	P15086