



# 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

|                           |  |
|---------------------------|--|
| <b>Specificity</b>        | It reacts with Human Carboxypeptidase B1<br>It has no cross-reactivity in ELISA with Mouse CPB1, Human CPA1, Human CPA2, Human CPE.  |
| <b>Target</b>             | CPB1   |
| <b>Immunogen</b>          | Recombinant Human CPB1 protein   |
| <b>Isotype</b>            | IgG1   |
| <b>Source/Host</b>        | Mouse  |
| <b>Species Reactivity</b> | Human  |
| <b>Clone</b>              | NN17   |
| <b>Purification</b>       | Protein A purified   |
| <b>Conjugate</b>          | Unconjugated   |
| <b>Applications</b>       | ELISA, ELISA(cap)<br>We recommend the following for sandwich ELISA (Capture - Detection):<br>CABT-ZB439 - CABT-ZB837<br>This antibody will detect Carboxypeptidase B1 in antibody pair set. [ABPR-ZB013]   |
| <b>Preparation</b>        | 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. |

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|----------------------|--|
| <b>Format</b>        | Purified, Liquid   |
| <b>Concentration</b> | Lot specific   |
| <b>Size</b>          | 50 µL, 100 µL, 200 µL, 1 mL  |
| <b>Buffer</b>        | PBS  |
| <b>Preservative</b>  | None   |
| <b>Storage</b>       | 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. |
| <b>Ship</b>          | 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](#)