



# Rabbit Anti-Human Carboxypeptidase B1 monoclonal antibody, clone S219 (CABT-ZB837)

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

## PRODUCT INFORMATION

|                           |                                                                                                                                                                                                   |
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| <b>Specificity</b>        | It reacts with Human Carboxypeptidase B1                                                                                                                                                          |
| <b>Target</b>             | CPB1                                                                                                                                                                                              |
| <b>Immunogen</b>          | Recombinant Human Carboxypeptidase B1/CPB1 Protein                                                                                                                                                |
| <b>Isotype</b>            | IgG                                                                                                                                                                                               |
| <b>Source/Host</b>        | Rabbit                                                                                                                                                                                            |
| <b>Species Reactivity</b> | Human                                                                                                                                                                                             |
| <b>Clone</b>              | S219                                                                                                                                                                                              |
| <b>Purification</b>       | Protein A purified                                                                                                                                                                                |
| <b>Conjugate</b>          | Unconjugated                                                                                                                                                                                      |
| <b>Applications</b>       | ELISA(det)<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 obtained from a rabbit immunized with purified, recombinant Human Carboxypeptidase B1 / CPB1.                                                                                   |
| <b>Format</b>             | Purified, Liquid                                                                                                                                                                                  |
| <b>Concentration</b>      | Lot specific                                                                                                                                                                                      |

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|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Size</b>         | 50 µL, 100 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

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| <b>Introduction</b> | 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. |
| <b>Keywords</b>     | CPB1; carboxypeptidase B1 (tissue); carboxypeptidase B; procarboxypeptidase B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## GENE INFORMATION

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|-----------------------|-------------------------------------------------------------------------------|
| <b>Synonyms</b>       | CPB1; carboxypeptidase B1 (tissue); carboxypeptidase B; procarboxypeptidase B |
| <b>Entrez Gene ID</b> | <a href="#">1360</a>                                                          |
| <b>UniProt ID</b>     | <a href="#">P15086</a>                                                        |