

**Datasheet for 200-401-049-0100****Carboxypeptidase B Antibody****Overview**

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| <b>Description:</b>  | Anti-Carboxypeptidase B (RABBIT) Antibody - 200-401-049-0100 |
| <b>Item No.:</b>     | 200-401-049-0100                                             |
| <b>Size:</b>         | 100 µg                                                       |
| <b>Applications:</b> | ELISA, WB                                                    |
| <b>Reactivity:</b>   | Pig                                                          |
| <b>Host Species:</b> | Rabbit                                                       |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Carboxypeptidase B is a carboxypeptidase that preferentially acts upon basic amino acids, such as arginine and lysine. This serum enzyme is also responsible for rapidly metabolizing the C5a protein into C5a des-Arg, with one less amino acid. Anti-CARBOXYPEPTIDASE B is ideal for investigators researching enzyme antibodies. |
| <b>Synonyms:</b>     | rabbit anti-Carboxypeptidase B antibody, CarboxypeptidaseB1 antibody, CP B1 antibody, CPB 1 antibody, CPB antibody, CPB1 antibody, DKFZp779K1333 antibody, Pancreas specific protein antibody, Pancreatic carboxypeptidase B1 antibody                                                                                              |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                              |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                          |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                 |

**Target Details**

|                        |                                       |
|------------------------|---------------------------------------|
| <b>Gene Name:</b>      | CPB1                                  |
| <b>Reactivity:</b>     | Pig                                   |
| <b>Immunogen Type:</b> | Native Protein                        |
| <b>Immunogen:</b>      | Carboxypeptidase B [Porcine Pancreas] |

**Purity/Specificity:** Anti-CARBOXYPEPTIDASE B is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum as well as purified and partially purified Carboxypeptidase B [Porcine Pancreas]. Cross reactivity against Carboxypeptidase B from other tissues and species may occur but have not been specifically determined.

**Relevant Links:**

- [UniProtKB - P09955](#)
- [NCBI - NP\\_999334.1](#)
- [GeneID - 397341](#)

## Application Details

|                             |                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA, WB                                                                                                                                                                                                 |
| <b>Application Note:</b>    | Anti-Carboxypeptidase B antibody has been tested by ELISA and western blot and is suitable for Immunohistochemistry applications. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                           |
| <b>ELISA:</b>               | 1:2,000 - 1:10,000                                                                                                                                                                                        |
| <b>IHC:</b>                 | 1:250 - 1:1,000                                                                                                                                                                                           |
| <b>WB:</b>                  | 1:500- 1:2,000                                                                                                                                                                                            |

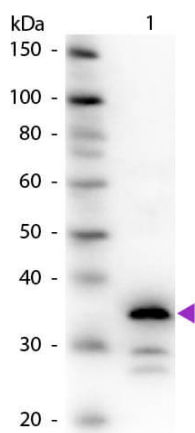
## Formulation

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                |
| <b>Concentration:</b>         | 1.0 mg/ml by UV absorbance at 280 nm                       |
| <b>Buffer:</b>                | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>          | 0.01% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>            | None                                                       |
| <b>Reconstitution Volume:</b> | 100 µL                                                     |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)               |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                           |

## Images



### Western Blot

Western Blot of Rabbit Anti-Carboxypeptidase B antibody.  
 Lane 1: Carboxypeptidase B. Lane 2: None. Load: 50 ng per lane. Primary antibody: Carboxypeptidase B primary antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Blocking: MB-070 for 30 min at RT.  
 Predicted/Observed size: 35 kDa, 35 kDa for Carboxypeptidase B. Other band(s): Carboxypeptidase B splice variants and isoforms.

## References

- Zhang P et al. The PERK eukaryotic initiation factor 2 $\alpha$  kinase is required for the development of the skeletal system, postnatal growth, and the function and viability of the pancreas. *Mol Cell Biol.* (2002)

## Disclaimer

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