Datasheet for ABIN4886546

# anti-CPB2 antibody (AA 165-387)

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | CPB2 |
| Binding Specificity: | AA 165-387 |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Application: | Western Blotting (WB) |

## Product Details

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| Purpose: | Rabbit IgG polyclonal antibody for Carboxypeptidase B2(CPB2) detection. Tested with WB in Mouse. |
| Immunogen: | E. coli-derived mouse CPB2 recombinant protein (Position: K165-D387). Mouse CPB2 shares 86.1% and 96.9% amino acid (aa) sequence identity with human and rat CPB2, respectively. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross reactivity with other proteins. |
| Characteristics: | Rabbit IgG polyclonal antibody for Carboxypeptidase B2(CPB2) detection. Tested with WB in Mouse.<br>Gene Name: carboxypeptidase B2<br>Protein Name: Carboxypeptidase B2 |
| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | CPB2 |
| Alternative Name: | CPB2 (CPB2 Products) |
| Background: | Carboxypeptidase B2 (CPB2), also known as carboxypeptidase U (CPU), plasma carboxypeptidase B (pCPB) or thrombin-activatable fibrinolysis inhibitor (TAFI), is an enzyme that, in humans, is encoded by the gene CPB2. CPB2 is synthesized by the liver and circulates in the plasma as a plasminogen-bound zymogen. When it is activated by proteolysis at residue Arg92 by the thrombin/thrombomodulin complex, CPB2 exhibits carboxypeptidase activity. Activated CPB2 reduces fibrinolysis by removing the fibrin C-terminal residues that are important for the binding and activation of plasminogen.<br><br>Synonyms: Carboxypeptidase U \| CarboxypeptidaseU \| CarboxypeptidaseB2 \| Carboxypeptidase B2 \| CP B2 \| CPB2 \| CPB 2 \| CPU \| PCPB \| Procarboxypeptidase B \| Procarboxypeptidase R \| Procarboxypeptidase U \| TAFI \| Q96IY4 |
| Gene ID: | 56373 |
| Pathways: | Regulation of Actin Filament Polymerization, Carbohydrate Homeostasis |

## Application Details

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| Application Notes: | WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse<br>Notes: Tested Species: Species with positive results.<br>Other applications have not been tested. Optimal dilutions should be determined by end users. |
| Comment: | Antibody can be supported by chemiluminescence kit ABIN921124 in WB. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Handling

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| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | At -20°C for one year. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |

## Publications

Product cited in:

Qu, Zhang, Du, Wang, Yang, Guo, Wang, Zhang, Xu: "Pim-3 is a Critical Risk Factor in Development and Prognosis of Prostate Cancer." in: **Medical science monitor : international medical journal of experimental and clinical research**, Vol. 22, pp. 4254-4260, (2017) (PubMed ).

Zhu, Liu, Wang, Nie, He, Zhang, Liu, Su: "Lentiviral-mediated growth-associated protein-43 modification of bone marrow mesenchymal stem cells improves traumatic optic neuropathy in rats." in: **Molecular medicine reports**, Vol. 12, Issue 4, pp. 5691-700, (2016) (PubMed).

Cao, Li, Li, Xiong, Zhou, Fan, Yu, Mao: "The potential role of HMGB1 release in peritoneal dialysis-related peritonitis." in: **PLoS ONE**, Vol. 8, Issue 1, pp. e54647, (2013) (PubMed).

## Images


**Western Blotting**

**Image 1.** Western blot analysis of CPB2 expression in mouse liver extract ( Lane 1). CPB2 at 48KD was detected using rabbit anti- CPB2 Antigen Affinity purified polyclonal antibody (Catalog # ) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).