

# Anti-TAFI/CPB2 Picoband Antibody

Catalog # ABO12682

## Product Information

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|--------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P, E                                                                                                   |
| <b>Primary Accession</b> | <a href="#">Q96IY4</a>                                                                                         |
| <b>Host</b>              | Rabbit                                                                                                         |
| <b>Reactivity</b>        | Human                                                                                                          |
| <b>Clonality</b>         | Polyclonal                                                                                                     |
| <b>Format</b>            | Lyophilized                                                                                                    |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Carboxypeptidase B2(CPB2) detection. Tested with WB, IHC-P, ELISA in Human. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                           |

## Additional Information

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| <b>Gene ID</b>                  | 1361                                                                                                                                                                             |
| <b>Other Names</b>              | Carboxypeptidase B2, 3.4.17.20, Carboxypeptidase U, CPU, Plasma carboxypeptidase B, pCPB, Thrombin-activable fibrinolysis inhibitor, TAFI, CPB2                                  |
| <b>Calculated MW</b>            | 48424                                                                                                                                                                            |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>ELISA , 0.1-0.5 µg/ml, Human, -<br>Western blot, 0.1-0.5 µg/ml, Human                        |
| <b>Subcellular Localization</b> | Secreted.                                                                                                                                                                        |
| <b>Tissue Specificity</b>       | Plasma; synthesized in the liver.                                                                                                                                                |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                        |
| <b>Protein Name</b>             | Carboxypeptidase B2                                                                                                                                                              |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                              |
| <b>Immunogen</b>                | E. coli-derived human CPB2 recombinant protein (Position: K166-D388). Human CPB2 shares 86.1% and 85.7% amino acid (aa) sequence identity with mouse and rat CPB2, respectively. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                     |

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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cross Reactivity</b> | No cross reactivity with other proteins                                                                                                                                            |
| <b>Storage</b>          | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |

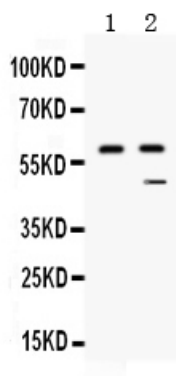
## Protein Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | CPB2                                                                                                                                                                                                                                                                                                          |
| <b>Function</b>          | Cleaves C-terminal arginine or lysine residues from biologically active peptides such as kinins or anaphylatoxins in the circulation thereby regulating their activities. Down-regulates fibrinolysis by removing C-terminal lysine residues from fibrin that has already been partially degraded by plasmin. |
| <b>Cellular Location</b> | Secreted.                                                                                                                                                                                                                                                                                                     |
| <b>Tissue Location</b>   | Plasma; synthesized in the liver.                                                                                                                                                                                                                                                                             |

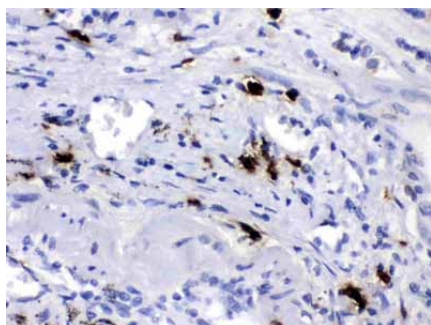
## Background

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.

## Images



Western blot analysis of CPB2 expression in human placenta extract (lane 1) and HEPG2 whole cell lysates (lane 2). CPB2 at 48KD, 60KD was detected using rabbit anti- CPB2 Antigen Affinity purified polyclonal antibody (Catalog # ABO12682) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



CPB2 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- CPB2 Antigen Affinity purified polyclonal antibody (Catalog # ABO12682) at 1 µg/mL. The immunohistochemical section was developed using SABC method .