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Datasheet for ABIN4886546

anti-CPB2 antibody (AA 165-387)

1 Image

1 Publication

Overview

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

Product Details

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. Gene Name: carboxypeptidase B2 Protein Name: Carboxypeptidase B2
Purification:	Immunogen affinity purified.

Target Details

Target:	CPB2
Alternative Name:	CPB2 (CPB2 Products)
Background:	<p>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.</p> <p>Synonyms: Carboxypeptidase U CarboxypeptidaseU CarboxypeptidaseB2 Carboxypeptidase B2 CP B2 CPB2 CPB 2 CPU PCPB Procarboxypeptidase B Procarboxypeptidase R Procarboxypeptidase U TAFI Q96IY4</p>
Gene ID:	56373
Pathways:	Regulation of Actin Filament Polymerization , Carbohydrate Homeostasis

Application Details

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

Handling

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

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.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

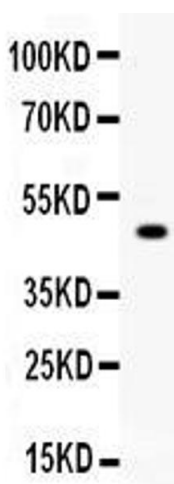
Publications

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 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).