

Rabbit anti-Human Carboxypeptidase B2 Polyclonal Antibody | anti-CPB2 antibody

Anti-Carboxypeptidase B2 Antibody, Rabbit Polyclonal

CATALOG # AAA256611	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Carboxypeptidase B2; Polyclonal Antibody; Anti-Carboxypeptidase B2 Antibody; Rabbit Polyclonal; Carboxypeptidase B2 Antibody; Rabbit PAb; Antigen Affinity Purified; carboxypeptidase B2 (plasma); Anti-CPU Antibody; Anti-PCPB Antibody; Anti-TAFI Antibody; anti-CPB2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Carboxypeptidase B2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-CPB2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human Carboxypeptidase B2 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human Carboxypeptidase B2 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human CPB2 in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-CPB2 rabbit polyclonal antibody at 1:500 dilution. Lane A: HepG2 Whole Cell Lysate, Lane B: Jurkat Whole Cell Lysate, Lane C: k562 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 48 kDa. Observed band size: 48 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CPB2 antibody	Carboxypeptidase B2, also known as Carboxypeptidase U, Thrombin-activable fibrinolysis inhibitor, Plasma carboxypeptidase B, CPB2, is a secreted protein which belongs to the peptidase M14 family. Carboxypeptidases are enzymes that hydrolyze C-terminal peptide bonds. The carboxypeptidase family includes metallo-, serine, and cysteine carboxypeptidases. According to their substrate specificity, these enzymes are referred to as carboxypeptidase A (cleaving aliphatic residues) or carboxypeptidase B (cleaving basic amino residues). CPB2 is activated by thrombin and acts on carboxypeptidase B substrates. After thrombin activation, the mature protein downregulates fibrinolysis. 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 cleaves C-terminal arginine or lysine residues from biologically active peptides such as kinins or anaphylatoxins in the circulation thereby regulating their activities. CPB2 exhibits carboxypeptidase activity and activated CPB2 reduces fibrinolysis by removing the fibrin C-terminal residues that are important for the binding and activation of plasminogen.
References	Eaton DL. et al., 1991, J Biol Chem. 266 (32): 21833-8. Boffa MB. et al., 1999, Biochemistry. 38 (20): 6547-58. Liu T. et al., 2005, J. Proteome Res. 4: 2070-80. Valnickova Z. et al., 2006, Biochemistry. 45: 1525-35. Chen R. et al., 2009, J. Proteome Res. 8: 651-61.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/carboxypeptidase-b2-antibody-immunohistochemistry-western-blot-elisa/256611>