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CPB2 Rabbit pAb

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Catalog # AP58677

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96IY4
Reactivity	Human
Predicted	Rat, Dog, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48424
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CPB2
Epitope Specificity	131-230/423
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This protein belongs to a family of Zn-containing metallocarboxypeptidases specific to C-terminal lysine and arginine residues. It circulates in plasma as a zymogen with molecular weight of 55 kDa (401 amino acid residues; pI 5.0). Being activated by thrombin-thrombomodulin complex during blood coagulation, it exerts carboxypeptidase activity. Activated carboxypeptidase B2 removes C-terminal lysine residues from fibrin, which is necessary for plasminogen binding to fibrin. This prevents plasminogen from activation into plasmin and retards the lysis of a fibrin clot. The concentration in plasma of healthy people is 5-10 ug/ml. High plasma levels were found in patients with stable angina pectoris and angiographically verified coronary artery disease. Elevated concentration in blood is considered as a risk factor for venous thrombosis. A deficiency might contribute to the severity of bleeding disorders in hemophilias A and B, and decreased levels are found in chronic liver disease.

Additional Information

Gene ID	1361
Other Names	Carboxypeptidase B2, 3.4.17.20, Carboxypeptidase U, CPU, Plasma carboxypeptidase B, pCPB, Thrombin-activable fibrinolysis inhibitor, TAFI, CPB2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

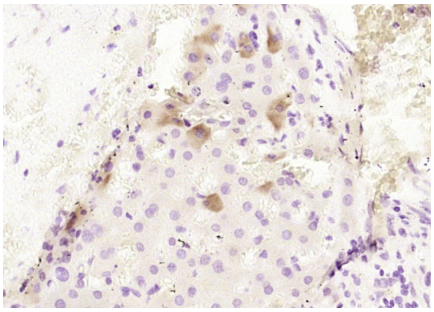
Protein Information

Name	CPB2
Function	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.
Cellular Location	Secreted.
Tissue Location	Plasma; synthesized in the liver.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CPB2) Polyclonal Antibody, Unconjugated (AP58677) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.