

Anti-Prothrombin antibody [EPR20131] ab208590

リコンビナント **RabMAb**

画像数 6

製品の概要

製品名	Anti-Prothrombin antibody [EPR20131]
製品の詳細	Rabbit monoclonal [EPR20131] to Prothrombin
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P
種交差性	交差種: Mouse, Rat
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Mouse and rat liver lysates; Mouse and rat plasma. IHC-P: Mouse liver and kidney tissues; Rat liver tissue.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR20131
アイソタイプ	IgG

アプリケーション

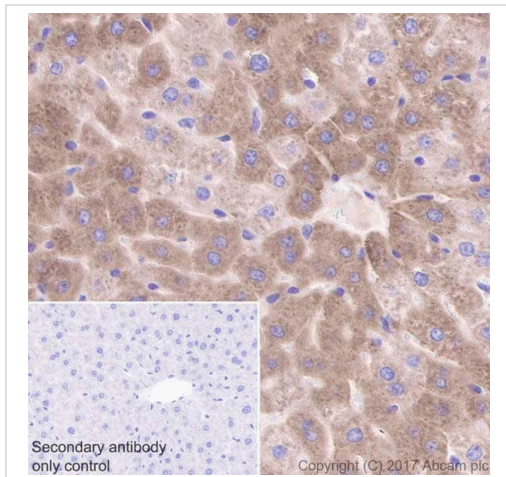
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab208590の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 72, 48, 33 kDa (predicted molecular weight: 70 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

ターゲット情報

機能	Thrombin, which cleaves bonds after Arg and Lys, converts fibrinogen to fibrin and activates factors V, VII, VIII, XIII, and, in complex with thrombomodulin, protein C. Functions in blood homeostasis, inflammation and wound healing.
組織特異性	Expressed by the liver and secreted in plasma.
関連疾患	<p>Defects in F2 are the cause of factor II deficiency (FA2D) [MIM:613679]. It is a very rare blood coagulation disorder characterized by mucocutaneous bleeding symptoms. The severity of the bleeding manifestations correlates with blood factor II levels.</p> <p>Genetic variations in F2 may be a cause of susceptibility to ischemic stroke (ISCHSTR) [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors.</p> <p>Defects in F2 are a cause of susceptibility to thrombosis (THR) [MIM:188050]. It is a multifactorial disorder of hemostasis characterized by abnormal platelet aggregation in response to various agents and recurrent thrombi formation. Note=A common genetic variation in the 3-prime untranslated region of the prothrombin gene is associated with elevated plasma prothrombin levels and an increased risk of venous thrombosis.</p>
配列類似性	<p>Belongs to the peptidase S1 family.</p> <p>Contains 1 Gla (gamma-carboxy-glutamate) domain.</p> <p>Contains 2 kringle domains.</p> <p>Contains 1 peptidase S1 domain.</p>
翻訳後修飾	The gamma-carboxyglutamyl residues, which bind calcium ions, result from the carboxylation of glutamyl residues by a microsomal enzyme, the vitamin K-dependent carboxylase. The modified residues are necessary for the calcium-dependent interaction with a negatively charged phospholipid surface, which is essential for the conversion of prothrombin to thrombin.
細胞内局在	Secreted > extracellular space.
製品の状態	Cleaved into the following 4 chains: 1. Activation peptide fragment 1 2. Activation peptide fragment 2 3. Thrombin light chain 4. Thrombin heavy chain

画像

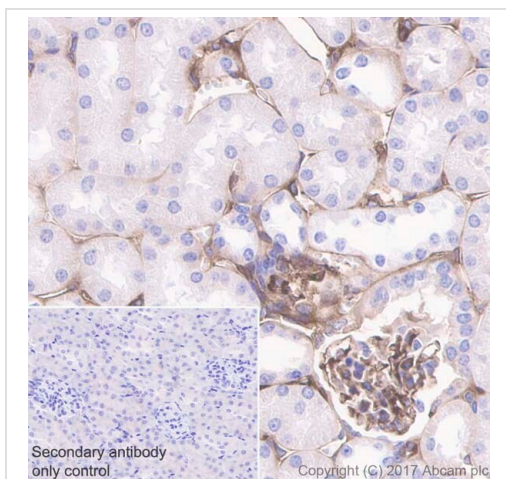


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prothrombin antibody [EPR20131] (ab208590)

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling Prothrombin with ab208590 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining on mouse liver was observed (PMID: 1705822). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

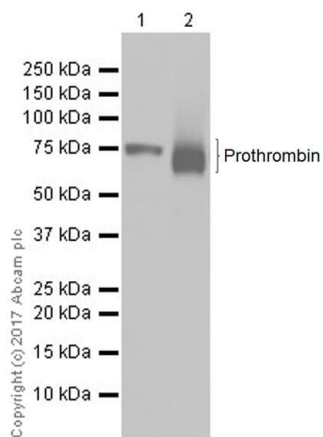


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prothrombin antibody [EPR20131] (ab208590)

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling Prothrombin with ab208590 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on plasma and endothelial cells of human kidney was observed (PMID: 16410745). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-Prothrombin antibody
[EPR20131] (ab208590)

All lanes : Anti-Prothrombin antibody [EPR20131] (ab208590) at
1/1000 dilution

Lane 1 : Mouse liver lysate

Lane 2 : Rat liver lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at
1/100000 dilution

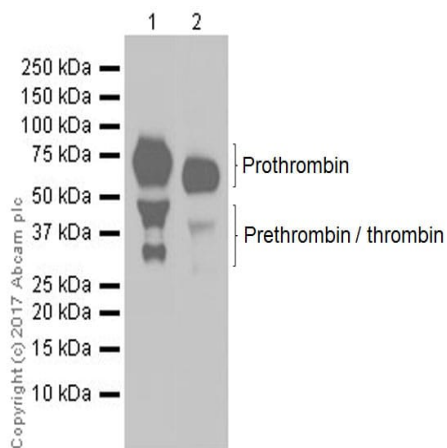
Developed using the ECL technique.

Predicted band size: 70 kDa

Observed band size: 72 kDa

Exposure time: 10 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Prothrombin antibody
[EPR20131] (ab208590)

All lanes : Anti-Prothrombin antibody [EPR20131] (ab208590) at
1/1000 dilution

Lane 1 : Mouse plasma

Lane 2 : Rat plasma

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at
1/100000 dilution

Developed using the ECL technique.

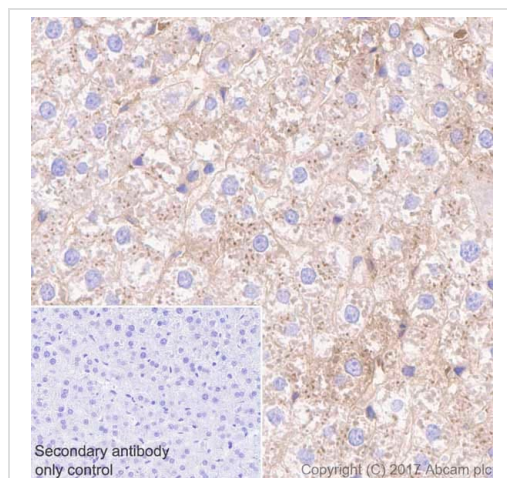
Predicted band size: 70 kDa

Observed band size: 33,48,72 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Prothrombin is proteolytically cleaved into different fragments. The fragment profile is consistent with the literature (PMID: 17637839; PMID: 21131592; PMID: 16734589).







Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prothrombin antibody [EPR20131] (ab208590)

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling Prothrombin with ab208590 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining on rat liver was observed (PMID: 1705822). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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