

# Anti-Fibrinogen alpha chain antibody [EPR2919] ab92572

**重组 RabMAb**

★☆☆☆☆ **1 Abreviews** **11 References** **10 图像**

### 概述

<b>产品名称</b>	Anti-Fibrinogen alpha chain抗体[EPR2919]
<b>描述</b>	兔单克隆抗体[EPR2919] to Fibrinogen alpha chain
<b>宿主</b>	Rabbit
<b>特异性</b>	The immunogen is derived from isoform alpha-E, UniProt accession P02671-1, and the antibody is not expected to detect isoform alpha.
<b>经测试应用</b>	<b>适用于:</b> WB, IP, IHC-P, ICC/IF, Flow Cyt (Intra)
<b>种属反应性</b>	<b>与反应:</b> Mouse, Rat, Human
<b>免疫原</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>阳性对照</b>	IHC: Mouse, rat and human placenta and mouse lung tissue; Flow Cyt (intra): Hepa1-6 cells; WB: Human, mouse and rat plasma lysates. Rat and mouse platelet lysates. Mouse liver tissue lysate; IP: Human plasma; ICC/IF: HepG2 cells.
<b>常规说明</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
<b>存储溶液</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol, 59% PBS
<b>纯度</b>	Protein A purified
<b>克隆</b>	单克隆

克隆编号 EPR2919

同种型 IgG

## 应用

**The Abpromise guarantee** **Abpromise™** 承诺保证使用ab92572于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Predicted molecular weight: 95 kDa.
IP		1/50.
IHC-P	★☆☆☆☆ (1)	1/3000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Antigen retrieval plus the use of an HRP/AP polymerized secondary antibody is highly recommended for enhanced staining. For unpurified use at 1/50 - 1/1000
ICC/IF		1/50. For unpurified use at 1/250.
Flow Cyt (Intra)		1/50.

## 靶标

**功能** Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet aggregation.

**组织特异性** Plasma.

**疾病相关** Defects in FGA are a cause of congenital afibrinogenemia (CAFBN) [MIM:202400]. This is a rare autosomal recessive disorder characterized by bleeding that varies from mild to severe and by complete absence or extremely low levels of plasma and platelet fibrinogen. Note=The majority of cases of afibrinogenemia are due to truncating mutations. Variations in position Arg-35 (the site of cleavage of fibrinopeptide a by thrombin) leads to alpha-dysfibrinogenemias.  
Defects in FGA are a cause of amyloidosis type 8 (AMYL8) [MIM:105200]; also known as systemic non-neuropathic amyloidosis or Ostertag-type amyloidosis. AMYL8 is a hereditary generalized amyloidosis due to deposition of apolipoprotein A1, fibrinogen and lysozyme amyloids. Viscera are particularly affected. There is no involvement of the nervous system. Clinical features include renal amyloidosis resulting in nephrotic syndrome, arterial hypertension, hepatosplenomegaly, cholestasis, petechial skin rash.

**序列相似性** Contains 1 fibrinogen C-terminal domain.

**结构域** A long coiled coil structure formed by 3 polypeptide chains connects the central nodule to the C-terminal domains (distal nodules). The long C-terminal ends of the alpha chains fold back, contributing a fourth strand to the coiled coil structure.

**翻译后修饰** The alpha chain is not glycosylated.  
Forms F13A-mediated cross-links between a glutamine and the epsilon-amino group of a lysine

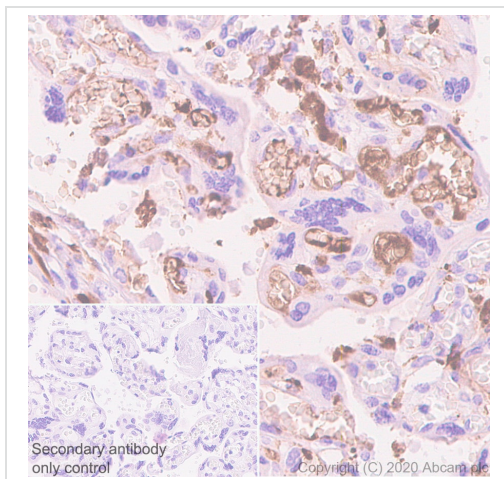
residue, forming fibronectin-fibrinogen heteropolymers.

About one-third of the alpha chains in the molecules in blood were found to be phosphorylated. Conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves fibrinopeptides A and B from alpha and beta chains, and thus exposes the N-terminal polymerization sites responsible for the formation of the soft clot. The soft clot is converted into the hard clot by factor XIIIa which catalyzes the epsilon-(gamma-glutamyl)lysine cross-linking between gamma chains (stronger) and between alpha chains (weaker) of different monomers. Phosphorylation sites are present in the extracellular medium.

## 细胞定位

Secreted.

## 图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue sections labeling Fibrinogen alpha chain with purified ab92572 at 1/3000 dilution (0.053 µg/mL). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572)



Western blot - Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572)

**All lanes** : Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572) at 1/10000 dilution (purified)

**Lane 1** : Human plasma lysate

**Lane 2** : Rat platelet lysate

**Lane 3** : Rat plasma lysate

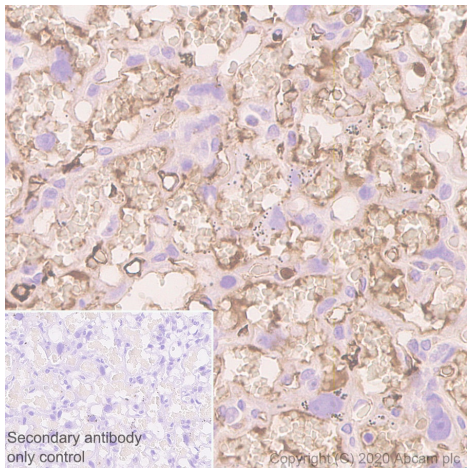
Lysates/proteins at 15 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

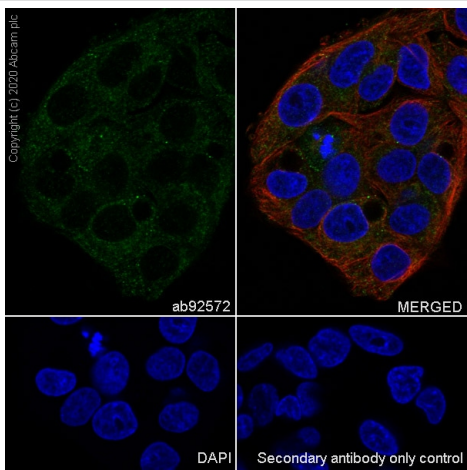
**Predicted band size:** 95 kDa

**Observed band size:** 95 kDa



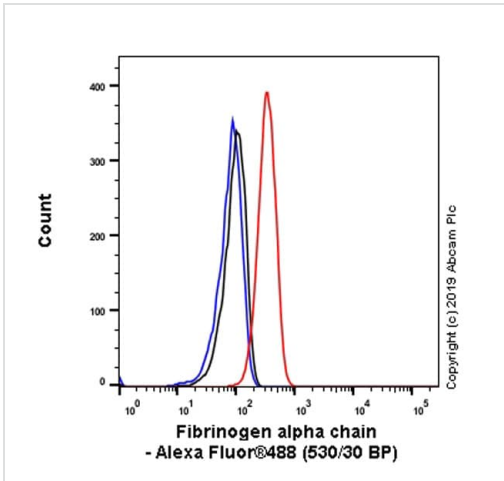
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat placenta tissue sections labeling Fibrinogen alpha chain with purified ab92572 at 1/3000 dilution (0.053  $\mu\text{g}/\text{mL}$ ). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

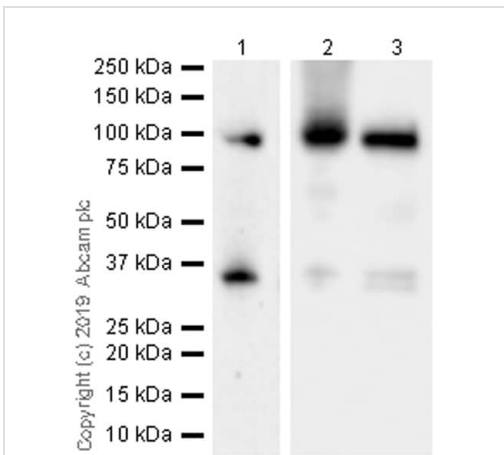


Immunocytochemistry/ Immunofluorescence - Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572)

Immunocytochemistry/ Immunofluorescence analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling Fibrinogen alpha chain with purified ab92572 at 1/50 dilution (3.16  $\mu\text{g}/\text{mL}$ ). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% TritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor<sup>®</sup> 594) 1/200 (2.5  $\mu\text{g}/\text{mL}$ ). Goat anti rabbit IgG (Alexa Fluor<sup>®</sup> 488, **ab150077**) was used as the secondary antibody at 1/1000 (2  $\mu\text{g}/\text{mL}$ ) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572)



Western blot - Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572)

Intracellular Flow Cytometry analysis of Hepa1-6 (Mouse hepatoma epithelial cell) labeling Fibrinogen alpha chain with ab92572 at 1/50 (red). Goat anti rabbit IgG (Alexa Fluor® 488), **ab150077** at 1/2000 was used as the secondary antibody. Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Isotype control / colour Rabbit monoclonal IgG (**ab172730**) (black). Unlabelled control / colour Cell without incubation with primary antibody and secondary antibody (blue).

**All lanes :** Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572) at 1/1000 dilution

**Lane 1 :** Mouse liver cell lysate

**Lane 2 :** Mouse plasma cell lysate

**Lane 3 :** Mouse platelet cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 95 kDa

**Observed band size:** 87 kDa

The band around 35 kD represents FGA fragment (PMID: 24937656).

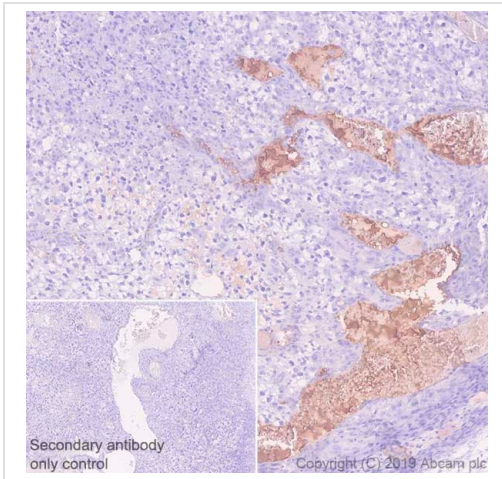
Exposure time:

Lane 1: 3 minutes;

Lanes 2-3: 5.5 seconds

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM/TBST

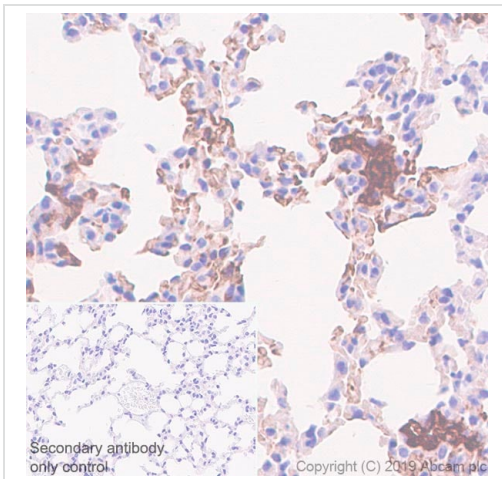


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572)

Immunohistochemical analysis of paraffin-embedded mouse placenta using ab92572 at 1/1000 dilution (0.5 µg/ml). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins. A rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as a secondary antibody (ready to use). Negative control used only the secondary antibody. Counterstained with haematoxylin.

Positive staining in plasma of mouse placenta.

The section was incubated with ab92572 for 30 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

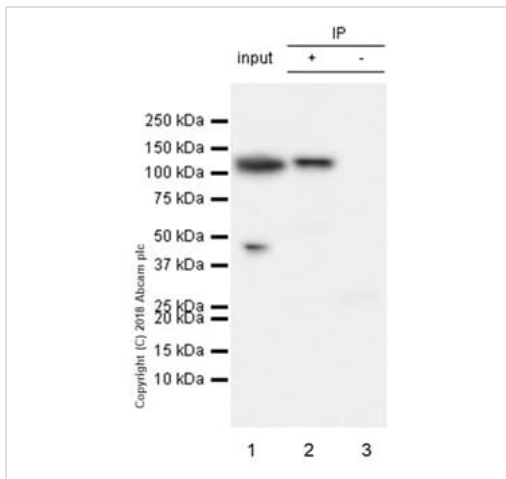


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572)

Immunohistochemical analysis of paraffin-embedded mouse lung using ab92572 at 1/1000 dilution (0.5 µg/ml). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins, a rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as a secondary antibody (ready to use). Negative control used only the secondary antibody. Counterstained with haematoxylin.

Strong positive staining in plasma of mouse lung (PMID: 26259584).

The section was incubated with ab92572 for 30 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunoprecipitation - Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572)

ab92572 at a dilution of 1/100 immunoprecipitating Fibrinogen alpha chain in human plasma.

**Lane 1 (input):** Human plasma (10 µg)

**Lane 2 (+):** ab92572 + human plasma.

**Lane 3 (-):** Rabbit monoclonal IgG (**ab172730**) instead of ab92572 in human plasma.

For western blotting, ab92572 was used as the primary antibody at a 1/1000 dilution and VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

**Blocking and dilution buffer:** 5% NFD/MTBST.

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-Fibrinogen alpha chain antibody [EPR2919] (ab92572)

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