



Anti-Fibrinogen alpha chain antibody ab231946

5 Images

Overview

Product name	Anti-Fibrinogen alpha chain antibody
Description	Rabbit polyclonal to Fibrinogen alpha chain
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment (His-T7-tag) corresponding to Mouse Fibrinogen alpha chain aa 1-300. N-terminal tags. Expressed in E.coli. Database link: E9PV24
	 Run BLAST with  Run BLAST with
Positive control	IHC-P: Mouse liver tissue. WB: Mouse liver and kidney lysates; Human serum; Recombinant mouse Fibrinogen alpha chain protein.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 44.12% PBS, 55.77% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Purification notes	ab231946 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab231946 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 - 20 µg/ml.
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 87 kDa.

Target

Function

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

Tissue specificity

Plasma.

Involvement in disease

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.

Sequence similarities

Contains 1 fibrinogen C-terminal domain.

Domain

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.

Post-translational modifications

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.

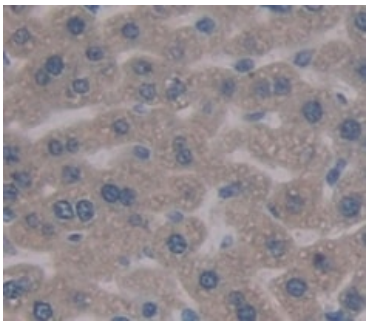
About one-third of the alpha chains in the molecules in blood were found to be phosphorylated.

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.

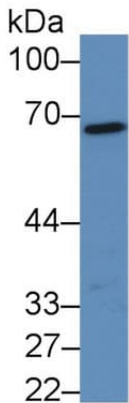
Cellular localization

Secreted.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibrinogen alpha chain antibody (ab231946)

Formalin-fixed, paraffin-embedded mouse liver tissue stained for Fibrinogen alpha chain using ab231946 at 20 µg/ml in immunohistochemical analysis. DAB staining.



Western blot - Anti-Fibrinogen alpha chain antibody (ab231946)

Anti-Fibrinogen alpha chain antibody (ab231946) at 2 µg/ml + Mouse liver lysate

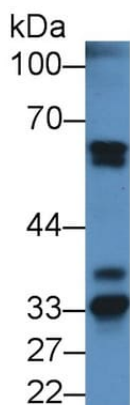
Predicted band size: 87 kDa



Western blot - Anti-Fibrinogen alpha chain antibody (ab231946)

Anti-Fibrinogen alpha chain antibody (ab231946) at 2 µg/ml + Human serum

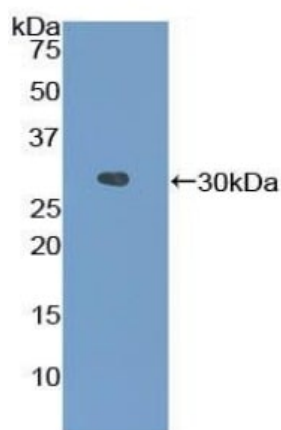
Predicted band size: 87 kDa



Anti-Fibrinogen alpha chain antibody (ab231946) at 2 µg/ml +
Mouse kidney lysate

Predicted band size: 87 kDa

Western blot - Anti-Fibrinogen alpha chain antibody
(ab231946)



Anti-Fibrinogen alpha chain antibody (ab231946) at 2 µg/ml +
Recombinant mouse Fibrinogen alpha chain protein

Predicted band size: 87 kDa

Western blot - Anti-Fibrinogen alpha chain antibody
(ab231946)

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