

Product datasheet

Anti-Fibrinogen gamma chain antibody ab231023

[4 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-Fibrinogen gamma chain antibody |
| Description | Rabbit polyclonal to Fibrinogen gamma chain |
| Host species | Rabbit |
| Tested applications | Suitable for: WB |
| Species reactivity | Reacts with: Chicken |
| Immunogen | <p>Recombinant full length protein (His-tag) corresponding to Chicken Fibrinogen gamma chain aa 27-435. Full length mature chain. Expressed in E. coli.</p> <p>Sequence:</p> <p>MGHHHHHSGSEFYATRENCILDERFGSYCPTTCGIADF FNKYRLTTD GELLEIEGLLQQATNSTGSIEYLIQHIKTYPSEKQTL PQSIEQ LTQKSK KIIIEIIRYENTILAHENTIQQLTDMHIMNSNKITQLKQKIAQLE SHCQE PCKDTAEIQETTGRDCQDIANKGARKSGLYFIKPKAKAKQS FLVYCEIDTY GNGWTVLQRRLDGSEDFRRNWVQYKEGFGHLSPDDTTE FWLGNEKIHILIT TQSTLPYALRIELEDWSGKKGADYAVFKVGTTEEDKYRLT YAYFIGGERG DAFDGFNFGDDPSDKSYTYHNGMRFSTFDNDNDFEGN CAEQDGSWWMN RCHAGHLNGPYIGGVYSRDTGTNSYDNGIOWATWRDRWY SMKKTTMKIIPFNRLSIDGQQHSGGLKQVGD</p> |

Database link: [O93568](#)

[Run BLAST with](#)

[Run BLAST with](#)

Positive control WB: Chicken serum; chicken kidney and liver lysate.

General notes Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and

species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

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: PBS, 50% Glycerol |
| Purity | Immunogen affinity purified |
| Purification notes | Antigen-specific affinity chromatography followed by Protein A affinity chromatography |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab231023** 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 |
|-------------|-----------|---|
| WB | | Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 50 kDa. |

Target

| | |
|-------------------------------|--|
| Function | Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet aggregation. |
| Involvement in disease | Defects in FGG are a cause of thrombophilia. Defects in FGG are a cause of congenital afibrinogenemia (CAFBN) [MIM:202400]. It is a rare autosomal recessive disorder characterized by complete absence of detectable fibrinogen. |
| 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

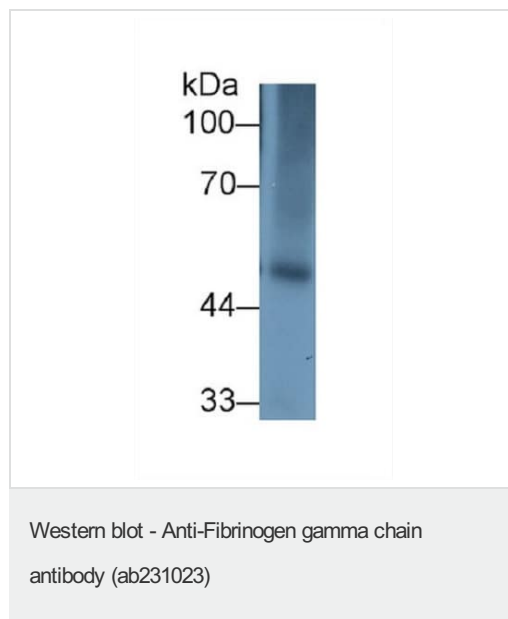
Conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves fibrinopeptides A and B from alpha and beta chains, and thus exposes the N-terminal polymerization sites responsible for the formation of the soft clot. The soft clot is converted into the hard clot by factor XIIIa which catalyzes the epsilon-(gamma-glutamyl)lysine cross-linking between gamma chains (stronger) and between alpha chains (weaker) of different monomers.

Sulfation of C-terminal tyrosines increases affinity for thrombin.

Cellular localization

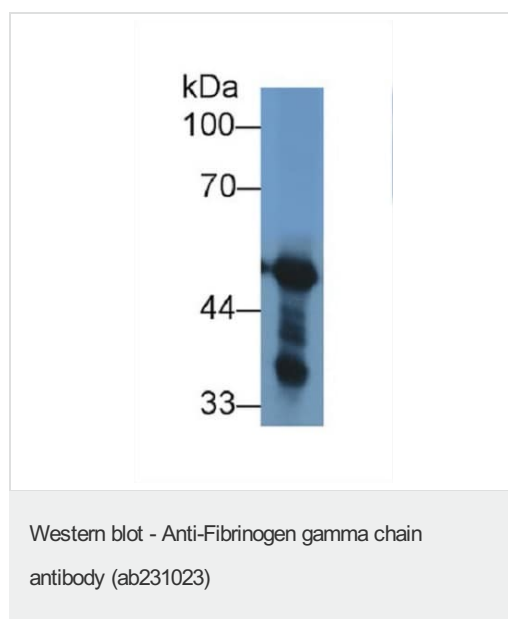
Secreted.

Images



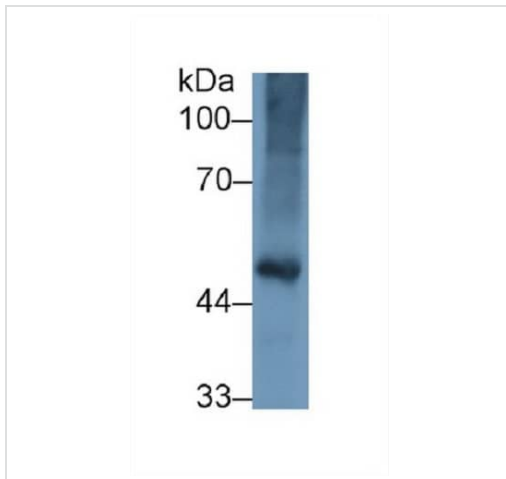
Anti-Fibrinogen gamma chain antibody (ab231023) at 1 µg/ml +
Chicken liver lysate

Predicted band size: 50 kDa



Anti-Fibrinogen gamma chain antibody (ab231023) at 1 µg/ml +
Chicken serum

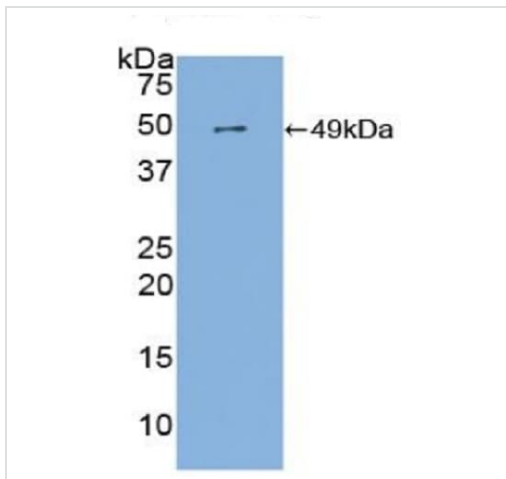
Predicted band size: 50 kDa



Anti-Fibrinogen gamma chain antibody (ab231023) at 1 µg/ml +
Chicken kidney lysate

Predicted band size: 50 kDa

Western blot - Anti-Fibrinogen gamma chain antibody (ab231023)



Anti-Fibrinogen gamma chain antibody (ab231023) at 1 µg/ml +
Recombinant chicken Fibrinogen gamma chain protein

Predicted band size: 50 kDa

Western blot - Anti-Fibrinogen gamma chain antibody (ab231023)

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

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