abcam

Product datasheet

Anti-Fibrinogen beta chain antibody ab137830

1 References   **3 Images**

Overview

Product name	Anti-Fibrinogen beta chain antibody
Description	Rabbit polyclonal to Fibrinogen beta chain
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
	Predicted to work with: Rat, Cow, Pig
Immunogen	Recombinant fragment corresponding to Human Fibrinogen beta chain aa 250-491.
Positive control	293T, A431, H1299, HeLa, HepG2, MOLT4, Raji and Mouse liver whole cell lysates, HeLa cells
General notes	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.
	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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

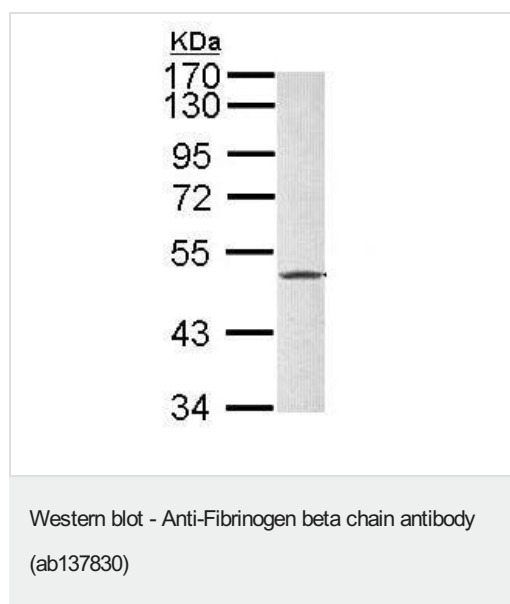|	
The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab137830 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 56 kDa.
ICC/IF		1/100 - 1/1000.

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 FGB are a cause of congenital afibrinogenemia (CAFBN) [MIM:202400]. This rare autosomal recessive disorder is characterized by bleeding that varies from mild to severe and by complete absence or extremely low levels of plasma and platelet fibrinogen. Note=Patients with congenital fibrinogen abnormalities can manifest different clinical pictures. Some cases are clinically silent, some show a tendency toward bleeding and some show a predisposition for thrombosis with or without bleeding.
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.
Cellular localization	Secreted.

Images

Western blot - Anti-Fibrinogen beta chain antibody (ab137830)
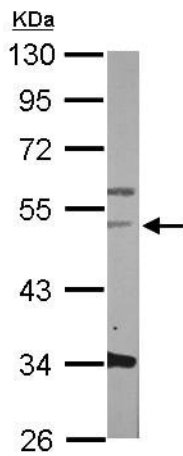
Anti-Fibrinogen beta chain antibody (ab137830) at 1/5000 dilution

+ Molt 4 whole cell lysate at 30 µg

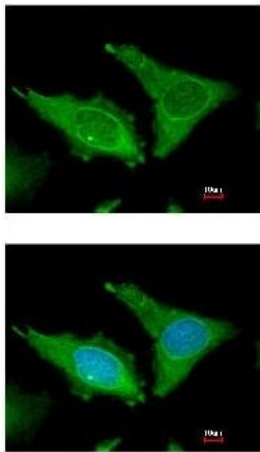**Predicted band size:** 56 kDa

7.5% SDS PAGE

Anti-Fibrinogen beta chain antibody (ab137830) at 1/5000 dilution
+ Mouse liver whole cell lysate at 50 µg

Predicted band size: 56 kDa

10% SDS PAGE

Western blot - Anti-Fibrinogen beta chain antibody
(ab137830)

Immunofluorescence analysis of methanol-fixed HeLa cells, labelling
Fibrinogen beta chain using ab137830 at 1/200 dilution. Bottom
image is costained with Hoechst 33342.

Immunocytochemistry/ Immunofluorescence - Anti-
Fibrinogen beta chain antibody (ab137830)

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

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