


Anti-Fibrinogen gamma chain antibody ab137728

[1 References](#) [2 Images](#)

Overview

Product name	Anti-Fibrinogen gamma chain antibody
Description	Rabbit polyclonal to Fibrinogen gamma chain
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Pig 
Immunogen	Recombinant fragment, corresponding to a region within amino acids 194-368 of Human Fibrinogen gamma chain.
Positive control	293T, A431, H1299, HeLa, HepG2, Molt4, Raji cell lysates; HeLa cells.
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. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab137728 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		1/500 - 1/300. Predicted molecular weight: 52 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 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.

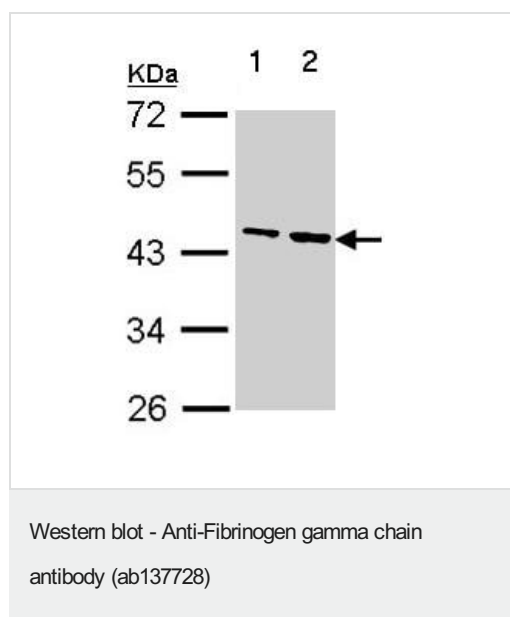
Post-translational modifications

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



All lanes : Anti-Fibrinogen gamma chain antibody (ab137728) at 1/1000 dilution

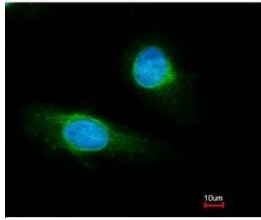
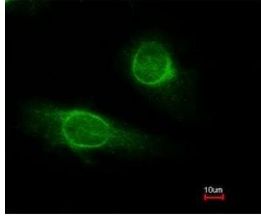
Lane 1 : A431 whole cell lysate

Lane 2 : HepG2 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 52 kDa

10% SDS PAGE



Immunofluorescent analysis of paraformaldehyde-fixed HeLa cells labelling Fibrinogen gamma chain with ab137728 at 1/200 dilution. Lower image is co-stained with Hoechst 33342.

Immunocytochemistry/ Immunofluorescence - Anti-Fibrinogen gamma chain antibody (ab137728)

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

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