

Product datasheet

Anti-Fibrinogen gamma chain antibody [5A6] ab119948

★★★★★ [1 Abreviews](#) [8 References](#) [3 Images](#)

Overview

Product name	Anti-Fibrinogen gamma chain antibody [5A6]
Description	Mouse monoclonal [5A6] to Fibrinogen gamma chain
Host species	Mouse
Tested applications	Suitable for: WB, ELISA, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment, corresponding to amino acids 210-437 of Human Fibrinogen gamma chain
Positive control	Recombinant Fibrinogen gamma chain protein, NIH3T3 cells
General notes	<p>This product was changed from ascites to supernatant. Lot no's high than GR240839-12 are from Tissue Culture Supernatant</p> <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). Store at -20°C long term.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	5A6

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab119948 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)	1/500 - 1/2000. Predicted molecular weight: 52 kDa.
ELISA		1/10000.
ICC/IF		1/200 - 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.

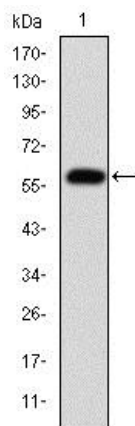
Post-translational modifications

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.

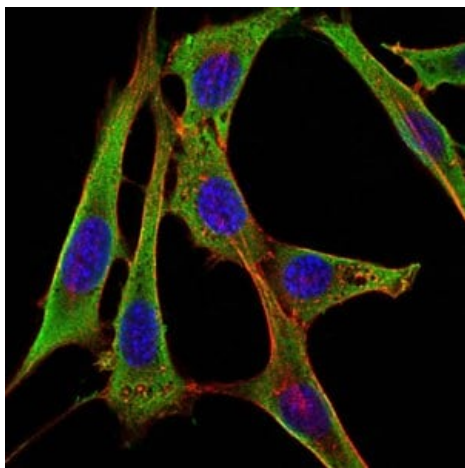
Images



Western blot - Anti-Fibrinogen gamma chain antibody [5A6] (ab119948)

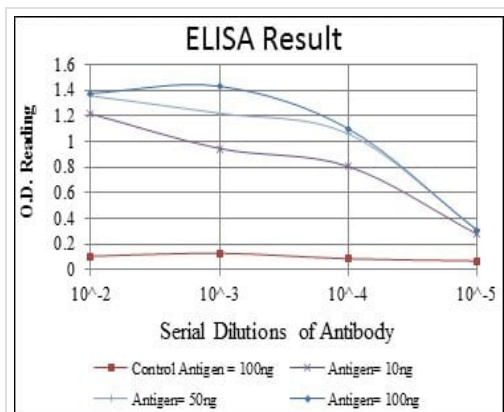
Anti-Fibrinogen gamma chain antibody [5A6] (ab119948) at 1/500 dilution + Recombinant Fibrinogen gamma chain protein

Predicted band size: 52 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Fibrinogen gamma chain antibody [5A6] (ab119948)

Immunofluorescence analysis of NIH3T3 cells using ab119948 at a dilution of 1/200 (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



ELISA, using ab119948 at a dilution of 1/10000.

ELISA - Anti-Fibrinogen gamma chain antibody
[5A6] (ab119948)

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