

Datasheet for 100-101-240**Fibrinogen Antibody****Overview**

Description:	Anti-FIBRINOGEN (Human Plasma) (GOAT) Antibody - 100-101-240
Item No.:	100-101-240
Size:	2 mL
Applications:	IHC, WB
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Fibrinogen is cleaved by the protease thrombin to yield monomers which, together with fibrinogen alpha (FGA), fibrinogen beta (FGB) and fibrinogen gamma (FGG), polymerize to form an insoluble fibrin matrix. Fibrin has a major function in hemostasis as one of the primary components of blood clots. In addition, it functions during the early stages of wound repair to stabilize the lesion and guide cell migration during re-epithelialization. It was originally thought to be essential for platelet aggregation, based on in vitro studies using anti-coagulated blood. However, subsequent studies have shown that it is not absolutely required for thrombus formation in vivo. It enhances expression of SELP in activated platelets via an ITGB3-dependent pathway. Maternal fibrinogen is essential for successful pregnancy. Fibrin deposition is also associated with infection, where it protects against IFNG-mediated hemorrhage. It may also facilitate the immune response via both innate and T-cell mediated pathways.
Synonyms:	goat anti-Fibrinogen Antibody, FGA antibody, FGA protein antibody, FGB antibody, FGG antibody, Fib2 antibody, Fibrinogen A alpha polypeptide antibody, Fibrinogen A alpha polypeptide chain antibody, Fibrinogen alpha chain antibody
Host Species:	Goat
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	FGA
Reactivity:	Human

Immunogen Type:	Native Protein
Immunogen:	Fibrinogen [Human Plasma]
Purity/Specificity:	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-goat serum, purified and partially purified Fibrinogen [Human Plasma]. Cross reactivity against Fibrinogen from other sources is unknown.
Relevant Links:	• NCBI - NP_000499.1 • UniProtKB - P02671 • GeneID - 2243

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Fibrinogen has been tested by western blot and immunohistochemistry and is suitable to be assayed against 1.0 µg of Fibrinogen [Human Plasma] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) code #605-4302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:10,000 to 1:50,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IHC:	1:500
WB:	1:2,000 - 1:10,000

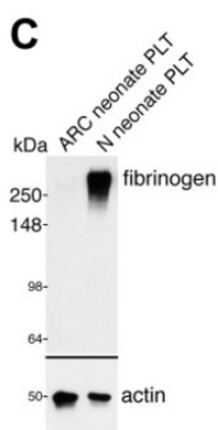
Formulation

Physical State:	Lyophilized
Concentration:	90 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



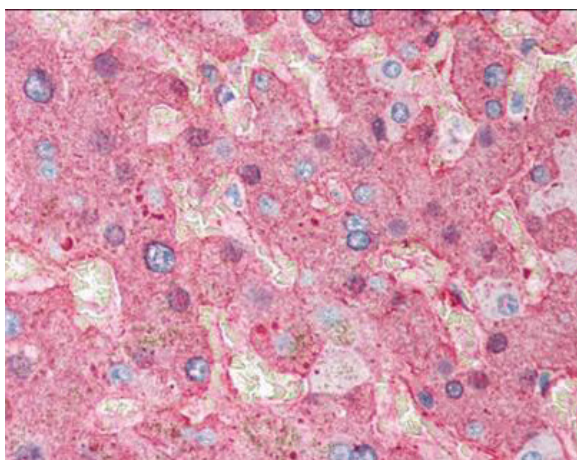
Western Blot

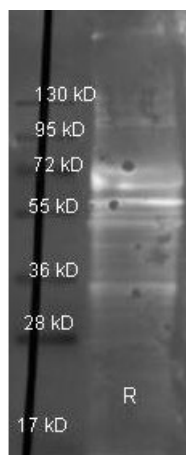
Soluble and membrane-bound α -granule protein deficiencies in ARC platelets and the presence of VPS33B in normal fibroblasts and megakaryocytes. Immunoblots comparing megakaryocyte (MK) and platelet (PLT) or fibroblast whole-cell lysates from ARC and normal (N) neonatal and adult sources as indicated for each lane. Platelets were isolated from citrated whole blood. Primary antibody goat anti-human fibrinogen (p/n 100-101-240). Actin was visualized as a protein concentration loading control.

(C) Fibrinogen was undetectable in ARC platelets (lane 1) despite its normal presence in neonatal control platelets (lane 2, nonreduced 9% SDS-PAGE) and ARC plasma (not shown). Figure 4. PMID: 16123220

Immunohistochemistry

Immunohistochemistry of Goat Anti-Fibrinogen antibody. Tissue: human liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Fibrinogen antibody at 1:500 for 1 h at RT. Secondary antibody: Peroxidase goat secondary antibody at 1:10,000 for 45 min at RT. Localization: Fibrinogen is localized in plasma. Staining: Fibrinogen as precipitated red signal with hematoxylin purple nuclear counterstain.



**Western Blot**

Western Blot of Goat anti-Fibrinogen antibody. Lane 1: Fibrinogen under reducing conditions. Load: 1 µg per lane. Primary antibody: Fibrinogen antibody at 1:3000 for overnight at 4°C. Secondary antibody: Dylight 488 conjugated Donkey anti-goat secondary antibody (p/n 605-741-002) at 1:10,000 for 45 min at RT. Block: TBS/MB-070 1 hr RT.

References

- Lo B, Li L, Gissen P, Christensen H, McKiernan PJ, Ye C, Abdelhaleem M, Hayes JA, Williams MD, Chita (2005) Requirement of VPS33B, a member of the Sec1/Munc18 protein family, in megakaryocyte and platelet α -granule biogenesis. *Blood* (2005)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.