

Datasheet for 200-103-240S**Fibrinogen Antibody Peroxidase Conjugated****Overview**

Description:	Anti-FIBRINOGEN (Human Plasma) (GOAT) Antibody Peroxidase Conjugated - 200-103-240S
Item No.:	200-103-240S
Size:	25 µL
Applications:	Dot Blot, ELISA, IHC, WB
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Peroxidase Conjugated Anti-FIBRINOGEN Antibody is specific of fibrinogen protein. Fibrinogen is a soluble plasma glycoprotein synthesized by the liver that is converted by thrombin into fibrin during blood coagulation. Fibrin specifically binds the activated coagulation factors factor Xa and thrombin and entraps them in the network of fibers, thus functioning as a temporary inhibitor of these enzymes, which stay active and can be released during fibrinolysis. Recent research has shown that fibrin plays a key role in the inflammatory response and development of rheumatoid arthritis. Anti-FIBRINOGEN Antibody is suitable for immunology and cardiovascular research.
Synonyms:	goat anti-Fibrinogen Antibody HRP Conjugation, Peroxidase Conjugated 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
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	0.486

Target Details

Gene Name:	FGA
-------------------	-----

Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	Fibrinogen [Human Plasma]
Purity/Specificity:	Anti-FIBRINOGEN Antibody (Peroxidase Conjugated) is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum as well as 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:	Dot Blot, ELISA, IHC, WB
Application Note:	Anti-FIBRINOGEN Antibody (peroxidase conjugated) antibody has been tested by ELISA, dot blot, western blot, and immunohistochemistry. Concentrations should be optimized by researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:1,000 - 1:10,000
IHC:	1:250 - 1:1,000
WB:	1:1,000 - 1:5,000

Formulation

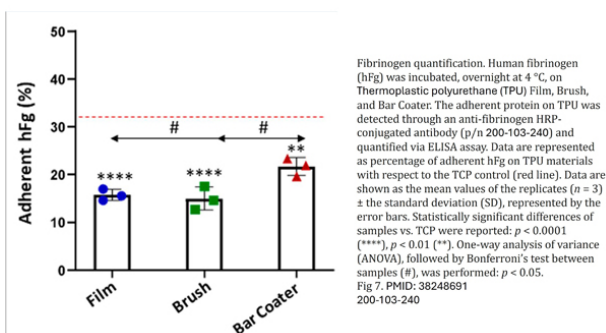
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Shipping & Handling

Shipping Condition:	Dry Ice
----------------------------	---------

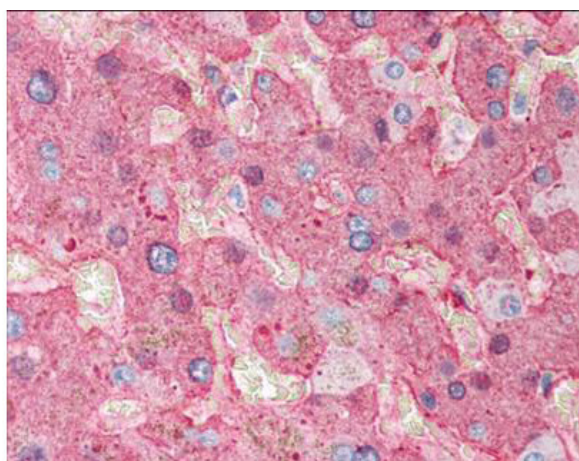
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



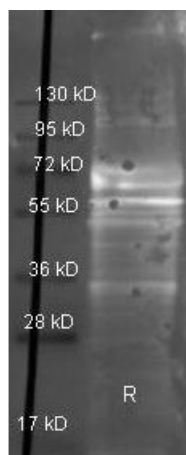
ELISA

Fibrinogen quantification. Human fibrinogen (hFg) was incubated, overnight at 4 °C, on Thermoplastic polyurethane (TPU) Film, Brush, and Bar Coater. The adherent protein on TPU was detected through an anti-fibrinogen HRP-conjugated antibody (p/n 200-103-240) and quantified via ELISA assay. Data are represented as percentage of adherent hFg on TPU materials with respect to the TCP control (red line). Data are shown as the mean values of the replicates ($n = 3$) $\pm$ the standard deviation (SD), represented by the error bars. Statistically significant differences of samples vs. TCP were reported: $p < 0.0001$ (****), $p < 0.01$ (**). One-way analysis of variance (ANOVA), followed by Bonferroni's test between samples (#), was performed: $p < 0.05$.
 Fig 7. PMID: 38248691



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. Lane 2: none. 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 at 1:10,000 for 45 min at RT. Block: TBS/MB-070 1 hr RT.

References

- Williams RAL et al. Altered whole blood thrombin generation and hyperresponsive platelets in patients with pancreatic cancer. *J Thromb Haemost.* (2024)
- Restivo E et al. Surface Properties of a Biocompatible Thermoplastic Polyurethane and Its Anti-Adhesive Effect against *E. coli* and *S. aureus*. *J Funct Bio,ater.* (2024)
- Tang Z. et al. Sensitive immunoassays of nitrated fibrinogen in human biofluids. *Talanta.* (2010)

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.