

Polyclonal Antibody to Fibrinogen - Serum

Alternate names: FGA, FGB, FGG

Catalog No.: TA319310

Quantity: 2 ml

Concentration: 90.0 mg/ml (by Refractometry)

Background: Fibrinogen is the main protein of blood coagulation system. It is a large protein and it consists of two identical subunits that contain three polypeptide chains: alpha, beta and gamma. All chains are connected with each other by a number of disulfide bonds. Fibrinopeptides A (1 to 16 amino acids) and B (1 to 17 amino acids) are released by thrombin from the N terminal parts of alpha and beta chains, respectively. In this way fibrinogen is converted into fibrin, which by means of polymerization forms a fibrin clot. Fibrinogen clotting underlies pathogenesis of MI, thromboembolism and thromboses of arteries and veins, since fibrin is the main substrate for thrombus formation. Fibrinogen activation is also involved in pathogenesis of inflammation, tumor growth and many other diseases.

The normal fibrinogen concentration in plasma is about 3 mg/ml. The elevated level of fibrinogen in patient's blood is regarded as an independent risk factor for cardiovascular diseases. An increase in blood fibrinogen concentration was shown to be a strong predictor of coronary heart disease (Sonel A. et al, and Rapold H.J. et al). All these facts make fibrinogen an important parameter in the diagnosis of cardiovascular diseases.

Host: Goat

Immunogen: Fibrinogen from Human Plasma.

Format: **State:** Lyophilized purified IgG fraction

Purification: Multistep process.

Buffer System: 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide as preservative, without stabilizers

Reconstitution: Restore with 1.0 ml of deionized water (or equivalent).

Applications: Suitable for Immunoblotting (Western or Dot blot), ELISA, Immunoprecipitation and most immunological methods requiring high titer and specificity.

Recommended Dilutions:

ELISA: 1/20,000-1/100,000.

Western Blot: 1/2,000-1/10,000.

Note: This product has been assayed against 1.0 µg of Fibrinogen [Human Plasma] in a standard sandwich ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) 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.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody is prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Fibrinogen [Human Plasma].

Cross reactivity against Fibrinogen from other sources is unknown.

Species: Human.

Other species not tested.

Storage:

Store lyophilized at 2-8°C for 6 months or at -20°C long term.

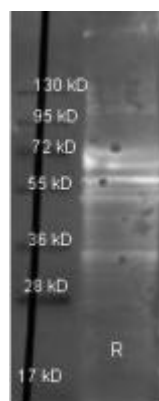
After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Pictures:

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.



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.

