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Polyclonal Antibody to Fibrinogen - HRP

Alternate names: FGA, FGB, FGG

Catalog No.: R1152HRPS

Quantity: 0.1 mg

Concentration: 1.0 mg/ml (by UV absorbance at 280 nm)

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 Ig fraction
Purification: Delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer
Buffer System: 0.02 M Potassium phosphate, 0.15 M Sodium chloride, pH 7.2
Preservatives: 0.01% (w/v) Gentamicin sulfate (Do NOT add Sodium azide!)
Stabilizers: 10 mg/ml BSA (immunoglobulin protease free)
Label: HRP – Horseradish peroxidase
Reconstitution: Restore with 0.1 ml of deionized water (or equivalent).

Applications:
Western blot: 1/1,000-1/5,000.
Immunohistochemistry:1/500-1/2,500.
ELISA: 1/10,000-1/130,000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This product detects human Fibrinogen. Cross reactivity against Fibrinogen from other sources is unknown.
Immunoelectrophoresis give a single precipitin arc against anti-peroxidase, anti-goat

serum as well as purified and partially purified Fibrinogen [human plasma].

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.

Caution: Do Not add Sodium azide as preservative!