

## Product datasheet for **AP54935SU-N**

### Fibrinogen alpha chain (FGA) (beta, gamma) Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western Blot:</b> 1/1000-1/20000.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Purified Fibrinogen from Human plasma.
Specificity:	Reacts with Human <i>alpha</i> , <i>beta</i> and <i>gamma</i> chains of Human Fibrinogen. May cross react with other species due to sequence homology.
Formulation:	State: Serum State: Lyophilized Serum Preservative: None
Reconstitution Method:	Restore in distilled water.
Conjugation:	Unconjugated
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	fibrinogen alpha chain
Database Link:	<a href="#">Entrez Gene 2243 Human</a> <a href="#">P02671</a>



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**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.

**Synonyms:**

FGA