SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-human Fibrinogen/AF647 Conjugated antibody

Catalog Number: SL1240R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-human Fibrinogen/AF647
Immunogen:	Fibrinogen from human plasma
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=1μg /test IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat)
Background:	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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	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. **Function:** Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet aggregation. **Subcellular Location:** Secreted. **Tissue Specificity:** Plasma. **Post-translational modifications:** The alpha chain is not glycosylated. Forms F13A-mediated cross-links between a glutamine and the epsilon-amino group of a lysine residue, forming fibronectin-fibrinogen heteropolymers. About one-third of the alpha chains in the molecules in blood were found to be phosphorylated. Conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves fibrinopeptides A and B from alpha and beta chains, and thus exposes the N-terminal polymerization sites responsible for the formation of the soft clot. The soft clot is converted into the hard clot by factor XIIIA which catalyzes the epsilon-(gamma-glutamyl)lysine cross-linking between gamma chains (stronger) and between alpha chains (weaker) of different monomers. Phosphorylation sites are present in the extracellular medium. **Similarity:** Contains 1 fibrinogen C-terminal domain. **Database links:** **Entrez Gene:** 2243 Human **Entrez Gene:** 2244 Human **Entrez Gene:** 2266 Human **Entrez Gene:** 110135 Mouse **Entrez Gene:** 14161 Mouse **Entrez Gene:** 99571 Mouse Omim: 134820 Human Omim: 134830 Human Omim: 134850 Human **SwissProt:** P02671 Human **SwissProt:** P02675 Human **SwissProt:** P02679 Human **SwissProt:** Q8K0E8 Mouse **SwissProt:** Q8VCM7 Mouse **Unigene:** 300774 Human **Unigene:** 351593 Human **Unigene:** 727584 Human **Unigene:** 16422 Mouse

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	Unigene: 30063 Mouse **Unigene:** 88793 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.