

## Rabbit Anti-human Fibrinogen/AF350 Conjugated antibody

SL1240R-AF350

<b>Product Name</b>	Anti-human Fibrinogen/AF350
<b>Chinese Name</b>	AF350 标记的人纤维蛋白原抗体
<b>Alias</b>	FGA; FGA protein; FGB; FGG; Fib2; Fibrin alpha chain ;Fibrinogen A alpha polypeptide; Fibrinogen A alpha polypeptide chain; Fibrinogen alpha chain; Fibrinogen B alpha polypeptide; Fibrinogen beta chain; Fibrinogen G alpha polypeptide; Fibrinogen gamma chain; MGC104327; MGC119422; MGC119423; MGC119425; MGC120405; FIBA_HUMAN.
<b>Research Area</b>	Cell biology immunology Signal transduction Cytoskeleton
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human(predicted:Mouse,Rat)
<b>Applications</b>	Flow-Cyt=1μg /test,IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	95/340kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	Fibrinogen from human plasma
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol 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.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> 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.

**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  
[Olim: 134820](#) Human  
[Olim: 134830](#) Human  
[Olim: 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  
[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.