

Anti-human Fibrinogen Antibody (2X877)

Product Details

Ig Type:	IgG1
Reactivity:	Human
Molecular Weight:	Theoretical: 340 kDa.
Clone:	2X877
Purification:	Protein A purified

Applications

Verified Activity:	Blank control (black line): HepG2. Primary Antibody (green line): Mouse Anti-human Fibrinogen antibody (TMAB-07431) Dilution: 1 µg/Test; Secondary Antibody (white blue line): Goat anti-mouse IgG-AF488 Dilution: 0.5 µg/Test. Isotype control (orange line): Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.
Application:	FCM
Recommended	FCM: 1µg/Test

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Fibrinogen from human plasma
Antigen Species:	Human
Gene ID:	2243
Uniprot ID:	P02671

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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