

Fibrinogen β (H-270): sc-33581

BACKGROUND

The plasma glycoprotein Fibrinogen is synthesized in the liver and comprises three structurally different subunits: α , β and γ . Fibrinogen is important in platelet aggregation, the final step of the coagulation cascade (i.e. the formation of Fibrin) and determination of plasma viscosity and erythrocyte aggregation. It is both constitutively expressed and inducible during an acute phase reaction. Hemostasis following tissue injury deploys essential plasma procoagulants (Prothrombin and Factors X, IX, V and VIII), which are involved in a blood coagulation cascade leading to the formation of insoluble Fibrin clots and the promotion of platelet aggregation. Following vascular injury, Fibrinogen is cleaved by Thrombin to form Fibrin, which is the most abundant component of blood clots. The cleavage products of Fibrinogen regulate cell adhesion and spreading, display vasoconstrictor and chemotactic activities and are mitogens for several cell types.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FGB (human) mapping to 4q31.3; Fgb (mouse) mapping to 3 E3.

SOURCE

Fibrinogen β (H-270) is a rabbit polyclonal antibody raised against amino acids 31-300 mapping near the N-terminus of Fibrinogen β of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

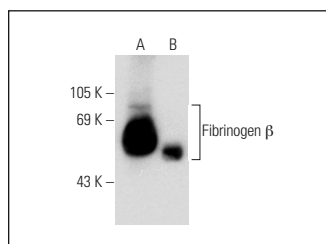
APPLICATIONS

Fibrinogen β (H-270) is recommended for detection of Fibrinogen β and Fibrinopeptide B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Fibrinogen β : 67 kDa.

Positive Controls: c4 whole cell lysate: sc-364186.

DATA



Fibrinogen β (H-270): sc-33581. Western blot analysis of Fibrinogen β expression in c4 whole cell lysate (A) and full length human recombinant Fibrinogen β (B).

SELECT PRODUCT CITATIONS

1. Zhao, X., et al. 2010. Hyperfibrinogenemia and prolonged clotting times in a Turner syndrome patient with hepatocellular carcinoma. *Blood Coagul. Fibrinolysis* 21: 398-405.
2. Klein, C., et al. 2011. Transcriptional profiling of equine conceptuses reveals new aspects of embryo-maternal communication in the horse. *Biol. Reprod.* 84: 872-885.
3. Luczak, M., et al. 2011. Chronic kidney disease-related atherosclerosis-proteomic studies of blood plasma. *Proteome Sci.* 9: 25.

PROTOCOLS

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