

Fibrinogen γ (C-20): sc-18032

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

1. Davie, E.W. and Fujikawa, K. 1975. Basic mechanisms in blood coagulation. *Annu. Rev. Biochem.* 44: 799-829.
2. Davie, E.W., et al. 1991. The coagulation cascade: initiation, maintenance, and regulation. *Biochemistry* 30: 10363-10370.
3. Danesh, J., et al. 1998. Association of Fibrinogen, C-reactive protein, Albumin, or leukocyte count with coronary heart disease: meta-analyses of prospective studies. *JAMA* 279: 1477-1482.
4. Lowe, G., et al. 2000. Blood rheology, cardiovascular risk factors, and cardiovascular disease: the west of Scotland coronary prevention study. *Thromb. Haemost.* 84: 553-558.
5. Reinhart, W.H. 2003. Fibrinogen—marker or mediator of vascular disease? *Vasc. Med.* 8: 211-216.

CHROMOSOMAL LOCATION

Genetic locus: FGG (human) mapping to 4q31.3; Fgg (mouse) mapping to 3 E3.

SOURCE

Fibrinogen γ (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Fibrinogen γ 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.

Blocking peptide available for competition studies, sc-18032 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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 γ (C-20) is recommended for detection of Fibrinogen γ 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).

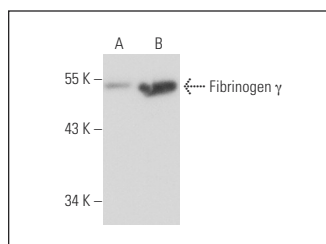
Fibrinogen γ (C-20) is also recommended for detection of fibrinogen γ in additional species, including canine and bovine.

Suitable for use as control antibody for Fibrinogen γ siRNA (h): sc-37098, Fibrinogen γ siRNA (m): sc-37099, Fibrinogen γ shRNA Plasmid (h): sc-37098-SH, Fibrinogen γ shRNA Plasmid (m): sc-37099-SH, Fibrinogen γ shRNA (h) Lentiviral Particles: sc-37098-V and Fibrinogen γ shRNA (m) Lentiviral Particles: sc-37099-V.

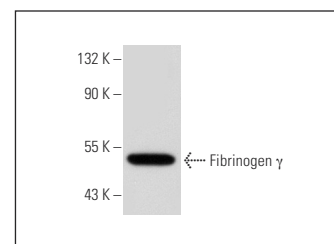
Molecular Weight of Fibrinogen γ : 57 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, mouse PBL whole cell lysate or human platelet whole cell lysate: sc-363773.

DATA



Fibrinogen γ (C-20): sc-18032. Western blot analysis of purified human Fibrinogen γ (A) and Fibrinogen γ expression in human platelet whole cell lysate (B).



Fibrinogen γ (C-20): sc-18032. Western blot analysis of Fibrinogen γ expression in mouse PBL whole cell lysate.

SELECT PRODUCT CITATIONS

1. Lecce, L., et al. 2011. ICAM1 and fibrinogen- γ are increased in uterine epithelial cells at the time of implantation in rats. *Mol. Reprod. Dev.* 78: 318-327.
2. Nakahata, A.M., et al. 2011. The effects of a plant proteinase inhibitor from *Enterolobium contortisiliquum* on human tumor cell lines. *Biol. Chem.* 392: 327-336.
3. Melander, O., et al. 2015. New circulating biomarkers for predicting cardiovascular death in healthy population. *J. Cell. Mol. Med.* 19: 2489-2499.

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Try **Fibrinogen γ (D-6): sc-133226** or **Fibrinogen γ (B-1): sc-133157**, our highly recommended monoclonal alternatives to Fibrinogen γ (C-20).