

Protein C (GMA-093): sc-65959

BACKGROUND

Protein C is a vitamin K-dependent plasma protein that is produced in the liver and made up of two polypeptide chains. It is an important anti-coagulant activated by Thrombin bound to an endothelial surface receptor and it enzymatically cleaves activated forms of Factors V and VIII, thus inhibiting blood coagulation. Protein C is similar to the prothrombin group of blood coagulation factors in its primary structure. Normal protein C concentration in human plasma is approximately 1-3 ng/ml and the proenzyme concentration is approximately 3 µg/ml. Protein C deficiency is associated with inherited thrombophilia, a rare genetic disorder that predisposes affected individuals to venous thrombosis and habitual abortion.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PROC (human) mapping to 2q14.3.

RESEARCH USE

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

SOURCE

Protein C (GMA-093) is a mouse monoclonal antibody raised against Protein C of human origin, with epitope mapping to Protein C heavy chain.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

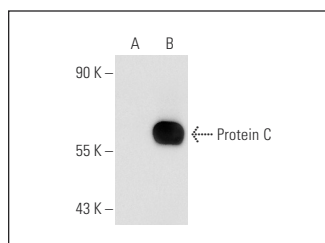
Protein C (GMA-093) is recommended for detection of Protein C of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for Protein C siRNA (h): sc-72054, Protein C shRNA Plasmid (h): sc-72054-SH and Protein C shRNA (h) Lentiviral Particles: sc-72054-V.

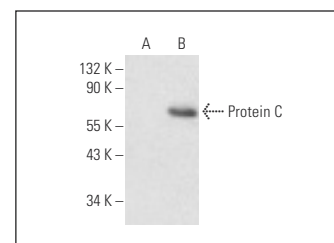
Molecular Weight of Protein C: 52 kDa.

Positive Controls: Protein C (h2): 293T Lysate: sc-170031, K-562 whole cell lysate: sc-2203 or ECV304 cell lysate: sc-2269.

DATA



Protein C (GMA-093): sc-65959. Western blot analysis of Protein C expression in non-transfected: sc-117752 (A) and human Protein C transfected: sc-158891 (B) 293T whole cell lysates.



Protein C (GMA-093): sc-65959. Western blot analysis of Protein C expression in non-transfected: sc-117752 (A) and human Protein C transfected: sc-170031 (B) 293T whole cell lysates.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.