

# Protein C (PC50): sc-52718

## 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 µg/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 (PC50) is a rat monoclonal antibody raised against Protein C of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>2a</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

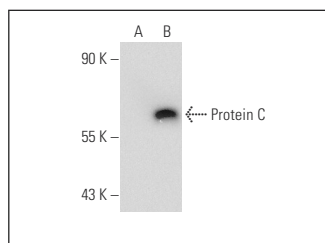
Protein C (PC50) is recommended for detection of Protein C of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

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 (h4): 293T Lysate: sc-158891, K-562 whole cell lysate: sc-2203 or ECV304 cell lysate: sc-2269.

## DATA



Protein C (PC50): sc-52718. 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.

## 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](http://www.scbt.com) for detailed protocols and support products.