

# Protein C (MA-HPC-1): sc-81682

## 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 (MA-HPC-1) is a mouse monoclonal antibody raised against Protein C of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and 5% glycerol.

## APPLICATIONS

Protein C (MA-HPC-1) is recommended for detection of Protein C and activated Protein C of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

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.

## 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.