Protein Z (C-16): sc-23505

BACKGROUND

The human protein Z gene maps to chromosome 13q34 and encodes a 62 kDa vitamin K-dependent plasma protein with a plasma half-life of approximately 2.5 days. Protein Z, Protein C and Coagulation Factors VII, IX and X share a similar structure. Protein Z limits the normal coagulation response by serving as a cofactor for the inhibition of Factor Xa by Protein Z-dependent procoagulant phospholipids (PZI). At phospholipid surfaces, Protein Z forms a calcium ion-dependent complex with Factor Xa. In the presence of Protein Z, Ca2+ and procoagulant phospholipids, PZI generates rapid inhibition of Factor Xa by forming a tertiary complex with Factor Xa and Protein Z. Protein Z deficiency and Protein Z autoantibodies correlate to early fetal loss in women.

REFERENCES


SOURCE

Protein Z (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Protein Z of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-23505 P, (100 µg 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.

PROTOCOLS

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

APPLICATIONS

Protein Z (C-16) is recommended for detection of Protein Z of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for Protein Z siRNA (h): sc-106450, Protein Z shRNA Plasmid (h): sc-106450-SH and Protein Z shRNA (h) Lentiviral Particles: sc-106450-V.

Molecular Weight of Protein Z: 62 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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