SANTA CRUZ BIOTECHNOLOGY, INC.

Factor X (F10-1): sc-69654

BACKGROUND

Hemostasis following tissue injury involves the deployment of essential plasma procoagulants (Prothrombin and Factors X, IX, V and VIII), which are involved in a blood coagulation cascade that leads to the formation of insoluble Fibrin clots and the promotion of platelet aggregation. Coagulation Factor X (Stuart Prower factor, FX, F10) is a vitamin K-dependent, single chain serine protease that is synthesized in the liver and circulates as an inactive precursor. The mature form of FX (FXA) is generated by Factor IX A- or Factor VII A-mediated cleavage at the tripeptide sequence, Arg-Lys-Arg, to yield a disulfide linked dimer. Together with the cofactor FVA and Ca^{2+} on the surface of platelets or endothelial cells, Factor X A coordinates as part of the prothrombinase complex, which mediates proteolysis of Prothrombin into active Thrombin. Mutations at the FX locus resulting in Factor X deficiencies can contribute to hemorrhagic diathesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: F10 (human) mapping to 13q34.

SOURCE

Factor X (F10-1) is a mouse monoclonal antibody raised against Factor X of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Factor X (F10-1) is recommended for detection of Factor X of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Factor X siRNA (h): sc-40405, Factor X shRNA Plasmid (h): sc-40405-SH and Factor X shRNA (h) Lentiviral Particles: sc-40405-V.

Molecular Weight of Factor X: 61 kDa.

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.

PROTOCOLS

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