SANTA CRUZ BIOTECHNOLOGY, INC.

Factor VII (MA-HFVII): sc-81679

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 VII (serum Prothrombin conversion accelerator, proconvertin, F7, Factor VII) is a 406 amino acid, vitamin K-dependent, single chain serine protease that is synthesized in the liver and circulates as an inactive precursor. Factor IX A, Factor X A, Factor XII A or Thrombin-mediated proteolytic cleavage of Factor VII at Arg 152-Ile 153 generates Factor VII A, an active serine protease composed of a catalytic heavy chain disulfide linked to a light chain, containing two EGF-like domains. Muta-tions at the F7 locus that lead to Factor VII deficiencies are generally asymptomatic or phenotypically uncharacterized, with hemorrhagic diathesis occurring at extremely low levels.

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CHROMOSOMAL LOCATION

Genetic locus: F7 (human) mapping to 13q34.

RESEARCH USE

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

SOURCE

Factor VII (MA-HFVII) is a mouse monoclonal antibody raised against Factor VII of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and 5% glycerol.

APPLICATIONS

Factor VII (MA-HFVII) is recommended for detection of Factor VII, Factor VII A and BFPRck Factor VII A of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for Factor VII siRNA (h): sc-40401, Factor VII shRNA Plasmid (h): sc-40401-SH and Factor VII shRNA (h) Lentiviral Particles: sc-40401-V.

Molecular Weight of Factor VII heavy chain: 200 kDa.

Molecular Weight of Factor VII light chain: 80 kDa.

Molecular Weight of Factor VII cleaved fragments: 43/50/73 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 for detailed protocols and support products.