

Factor XI (H-76): sc-134533

BACKGROUND

Coagulation Factor XI (FXI) is a glycoprotein produced by platelets and megakaryocytes in the liver and circulates as a zymogen homodimer in plasma. Factor XI is a trypsin-like plasma serine protease that catalyzes the activation of the consolidation phase of blood coagulation through a Thrombin-generated feedback loop. The plasma half-life of Factor XI is about 52 hours, and plasma concentrations are usually 5 mg/l. During hemostasis, the coagulation protease factor (Factor XIa) activates Factor XI. Factor XI deficiency (Hemophilia C) is an injury-related bleeding disorder that leads to a variable bleeding tendency which is inherited in an autosomal recessive manner, though is not completely recessive, because heterozygotes also have a mild but definite bleeding tendency.

REFERENCES

- Podmore, A., Smith, M., Savidge, G. and Alhaq, A. 2004. Real-time quantitative PCR analysis of Factor XI mRNA variants in human platelets. *J. Thromb. Haemost.* 2: 1713-1719.
- Dai, L., Mitchell, M., Savidge, G. and Alhaq, A. 2004. The profibrinolytic effect of plasma thrombomodulin in Factor XI deficiency and its implications in hemostasis. *J. Thromb. Haemost.* 2: 2200-2204.
- Zivelin, A., Ogawa, T., Bulvik, S., Landau, M., Toomey, J.R., Lane, J., Seligsohn, U. and Gailani, D. 2004. Sever a cross-reactive material positive variant defective in Factor IX activation. *J. Thromb. Haemost.* 2: 1782-1789.
- Salomon, O., Steinberg, D.M., Tamarin, I., Zivelin, A. and Seligsohn, U. 2005. Plasma replacement therapy during labor is not mandatory for women with severe Factor XI deficiency. *Blood Coagul. Fibrinolysis* 16: 37-41.
- Dossenbach-Glaninger, A. and Hopmeier, P. 2005. Coagulation Factor XI: a database of mutations and polymorphisms associated with Factor XI deficiency. *Blood Coagul. Fibrinolysis* 16: 231-238.
- Ghosh, K., Nair, S., Shetty, S., Rajapurkar, M. and Mohanty, D. 2005. Co-existence of Bernard Soulier syndrome a a unified pathology? *Platelets* 16: 85-89.

CHROMOSOMAL LOCATION

Genetic locus: F11 (human) mapping to 4q35.2.

SOURCE

Factor XI (H-76) is a rabbit polyclonal antibody raised against amino acids 111-186 mapping near the N-terminus of Factor XI 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.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Factor XI (H-76) is recommended for detection of Factor XI of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

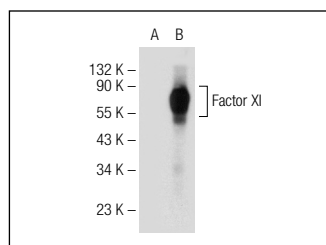
Suitable for use as control antibody for Factor XI siRNA (h): sc-60625, Factor XI shRNA Plasmid (h): sc-60625-SH and Factor XI shRNA (h) Lentiviral Particles: sc-60625-V.

Positive Controls: Human Factor XI transfected 293T whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Factor XI (H-76): sc-134533. Western blot analysis of Factor XI expression in non transfected (A) and human Factor XI transfected (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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


 MONOS
Satisfaction
Guaranteed

Try **Factor XI (G-2): sc-365996**, our highly recommended monoclonal alternative to Factor XI (H-76).