

# Factor XI (T-12): sc-48159

## 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

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## CHROMOSOMAL LOCATION

Genetic locus: F11 (human) mapping to 4q35.2; F11 (mouse) mapping to 8 B1.1.

## SOURCE

Factor XI (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region 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.

Blocking peptide available for competition studies, sc-48159 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Factor XI (T-12) is recommended for detection of Factor XI of mouse and 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).

Factor XI (T-12) is also recommended for detection of Factor XI in additional species, including canine.

Suitable for use as control antibody for Factor XI siRNA (h): sc-60625 and Factor XI siRNA (m): sc-60626; and as shRNA Plasmid control antibody for Factor XI shRNA Plasmid (h): sc-60625-SH and Factor XI shRNA Plasmid (m): sc-60626-SH.

Molecular Weight of Factor XI single subunit: 80 kDa.

Molecular Weight of Factor XI N-terminal heavy chain: 50 kDa.

Molecular Weight of Factor XI N-terminal light chain: 35 kDa.

Positive Controls: Human platelet whole cell lysate: sc-363773 or mouse liver extract: sc-2256.

## 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.

## 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.



Try **Factor XI (G-2): sc-365996**, our highly recommended monoclonal alternative to Factor XI (T-12).