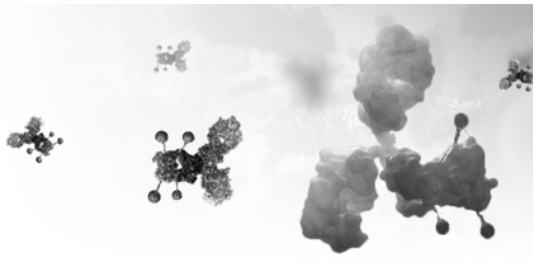

Goat anti Human Factor XI polyclonal antibody [Biotin] (CABT-L456)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Prior to conjugation, this antibody was specific for FXI as demonstrated by immunoelectrophoresis and ELISA.
Target	Factor XI
Immunogen	Human Factor XI purified from plasma.
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Affinity purified
Conjugate	Biotin
Applications	IEP, ELISA
Format	Liquid
Size	100 µg
Buffer	Phosphate-buffered saline containing 1 mg/mL bovine albumin and 0.1% sodium azide, pH 7.4.
Preservative	0.1% Sodium Azide
Storage	Store at 2°C to 8°C.

BACKGROUND

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Introduction	Factor XI (F.XI, plasma thromboplastin antecedent) is a coagulation protein produced in the liver that circulates in plasma at approximately 5 μg/mL (30 nM). The mass of F.XI is 160 kDa as determined by SDS-PAGE under non-reducing conditions and 80 kDa upon reduction. F.XI consists of two identical 80 kDa subunits linked by disulphide bonds. Each subunit consists of a tandem repeat of four apple domains followed by a serine protease catalytic domain. Cleavage of F.XI by activated factor XII or thrombin converts each subunit into a two-chain form and generates two active sites per F.XIa molecule. The mass of F.XIa is 160 kDa unreduced, but upon reduction F.XIa migrates as a heavy chain of 50 kDa and a light chain of 30 kDa. The catalytic site of F.XIa resides in the light chain. In plasma, F.XI or F.XIa circulates in non-covalent 1:1 complex with high molecular weight kininogen, which acts as a cofactor in the activation of F.XI by activated factor XII. The activity of F.XIa is regulated by platelets and by several proteinase inhibitors including, in order of decreasing importance, C1-inhibitor, α2 Antiplasmin, α1 Antitrypsin and antithrombin. Heparin has relatively little effect on the rate of inhibition of F.XIa by antithrombin. The only known natural substrate for activated F.XI (F.XIa) is factor IX (Christmas factor) and the only cofactor required for this reaction is ionized calcium.
Keywords	F11;coagulation factor XI;FXI;PTA;plasma thromboplastin antecedent;

GENE INFORMATION

Entrez Gene ID	2160
UniProt ID	P03951

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