Claims

1. Human monoclonal antibodies capable of binding to the coagulation Factor XI and/or its activated form factor XIa characterized in that they inhibit platelet aggregation and by this inhibit thrombosis without compromising hemostasis.

2. Human anti-FXIa according to claim 1 comprising at least one of the amino acid sequence for the variable light chain domain and the amino acid sequence for the variable heavy chain domain as shown in table 9 inhibiting human FXIa.

3. Human anti-FXIa according to any of claims 1 and 2 comprising SEQ ID NO: 19 for the amino acid sequence for the variable light chain domain and SEQ ID NO: 20 for the amino acid sequence for the variable heavy chain domain inhibiting human FXIa.

4. Human anti-FXIa according to any claims 1 to 2 comprising at least one CDR amino acid sequence as shown in table 9 inhibiting human FXIa.

5. Human anti-FXIa according to claim 4 comprising as CDRH1 SEQ ID NO: 21, as CDRH2 SEQ ID NO: 22 and as CDRH3 SEQ ID NO: 23 and as CDRL1 SEQ ID NO: 24, as CDRL2 SEQ ID NO: 25 and as CDRL3 SEQ ID NO: 26.

6. Human anti-FXI antibody according to any one of claims 1 to 2 comprising SEQ ID NO: 29 for the amino acid sequence for the variable light chain domain and SEQ ID NO: 30 for the amino acid sequence for the variable heavy chain domain.

7. Human anti-FXI antibody according to claims 6 comprising as CDRH1 SEQ ID NO: 31, as CDRH2 SEQ ID NO: 32 and as CDRH3 SEQ ID NO: 33 and as CDRL1 SEQ ID NO: 34, as CDRL2 SEQ ID NO: 35 and as CDRL3 SEQ ID.

8. Human anti-FXI antibody according to any of claims 1 and 2 comprising SEQ ID NO: 27 for the amino acid sequence for the variable light chain domain and SEQ ID NO: 28 for the amino acid sequence for the variable heavy chain domain.

9. A human antibody competing with one of the antibodies according to 1 to 8.

10. A pharmaceutical composition comprising an antibody according to any of claim 1 to 9.

11. A medicament comprising an antibody according to any of claim 1 to 9.

12. A nucleic acid coding for one or more of the antibodies according to claims 1 to 9.

13. A vector comprising the nucleic acid according to claim 12.

14. A Host comprising the vector of claim 13.

## CLAIMS

1. An invention not claimed in any divisional application.