**Fig. S1** SDS-PAGE for α- and β-antithrombin. The cathode (−) is located at the top of the gel (pH4), while the anode (+) is at the bottom (pH6.5). Fifteen micrograms of protein was loaded in each lane of 7.5% (w/v) acrylamide. Each protein band was stained with Coomassie Brilliant Blue. Both α- and β-antithrombin were recognized as blue bands located near 58 kDa.

**Fig. S2** Syndecan-4 staining of endothelial cells treated with various doses of histone H4. Intact cells were negative for syndecan-4 staining. After the histone H4 treatment, the cells started to shrink and separate, and syndecan-4 staining at cell periphery and at the site of adhesion to the basement membrane became visible.