FIGURE S1. Suppression of pig E-selectin expression by MB-hTM and S-hTM.
(A) Pig E-selectin expression in hTM(-)- and hTM(+)-PAEC at cell surface level.
(B) Pig E-selectin in hTM(-)-PAEC in the presence of S-hTM. Flow cytometry analysis revealed that cell membrane expression of pig E-selectin was drastically upregulated in TNFα-stimulated PAEC. Although MB-hTM significantly inhibited by 36% (hTM(+) No.436; P<0.01) and 20% (hTM(+) No.441; P<0.01) of pig E-selectin upregulation, S-hTM did not suppress it.
(C) Pig E-selectin mRNA expression in hTM(-)- and hTM(+)-PAEC.
(D) Pig E-selectin mRNA expression in hTM(-)-PAEC in the presence of S-hTM. TNFα-induced upregulation of pig E-selectin mRNA was also observed by RT-PCR. MB-hTM inhibited 43% (hTM(+) No.436; P<0.05) and 45% (hTM(+) No.441; P=0.085) of pig E-selectin mRNA expression in TNFα-stimulated PAEC. In contrast, S-hTM did not inhibit E-selectin mRNA expression at all.
Data were obtained in triplicate from three independent experiments. All values were presented as mean +/- SEM.
SDC Figure S2

(A) hTM(-) vs. hTM(+) No.436*** P<0.001
hTM(-) vs. hTM(+) No.441*** P<0.001

(B) 0 ug/ml s-hTM
0.1 ug/ml s-hTM
1 ug/ml s-hTM
10 ug/ml s-hTM

(C) COS-7/vector vs. COS-7/hTM*** P<0.001

(D) COS-7/vector
MFI:6.4

COS-7/hTM
MFI:1232.7
Legend for Figure S2

FIGURE S2. Inhibitory Effect of MB-hTM and S-hTM on direct prothrombinase activity in TNFα-stimulated PAEC.
(A) Direct prothrombinase activity in hTM(-)- and hTM(+)-PAEC. TNFα stimulation induced the increase of direct prothrombinase activity. MB-hTM significantly suppressed 57% (hTM(+) No.436; P<0.001) and 63% (hTM(+) No.441; P<0.001) of direct prothrombinase activity.
(B) Direct prothrombinase activity in S-hTM-PAEC. S-hTM had no suppressive effect on direct prothrombinase activity-induced by TNFα stimulation.
(C) Neutralization of thrombin by thrombomodulin expressed on PAEC. COS-7/hTM (positive control), COS-7/vector (negative control), hTM(+/-)-PAEC and HUVEC were incubated with human thrombin. Thrombin binding rate in COS-7/hTM was 49% cells, whereas those in other cells (hTM(+/-)-PAEC, HUVEC and COS-7/vector) were low and did not vary between cells.
(D) hTM expression level on COS-7/hTM. hTM-transfected COS-7 cells (COS-7/hTM) expressed hTM at very high levels (mean fluorescence intensity: 1232.7 vs 6.4 of COS-7/vector). Data were obtained in triplicate from three independent experiments. All values were presented as mean +/- SEM.