Supplementary Information

Renae Waters[a], Siddharth Subham[a], Settimio Pacelli[a], Saman Modaresi[a], Aparna R. Chakravarti[a], Arghya Paul[a*]

[a]BioIntel Research Laboratory, Department of Chemical and Petroleum Engineering, School of Engineering, University of Kansas, Lawrence, KS, 66045, USA

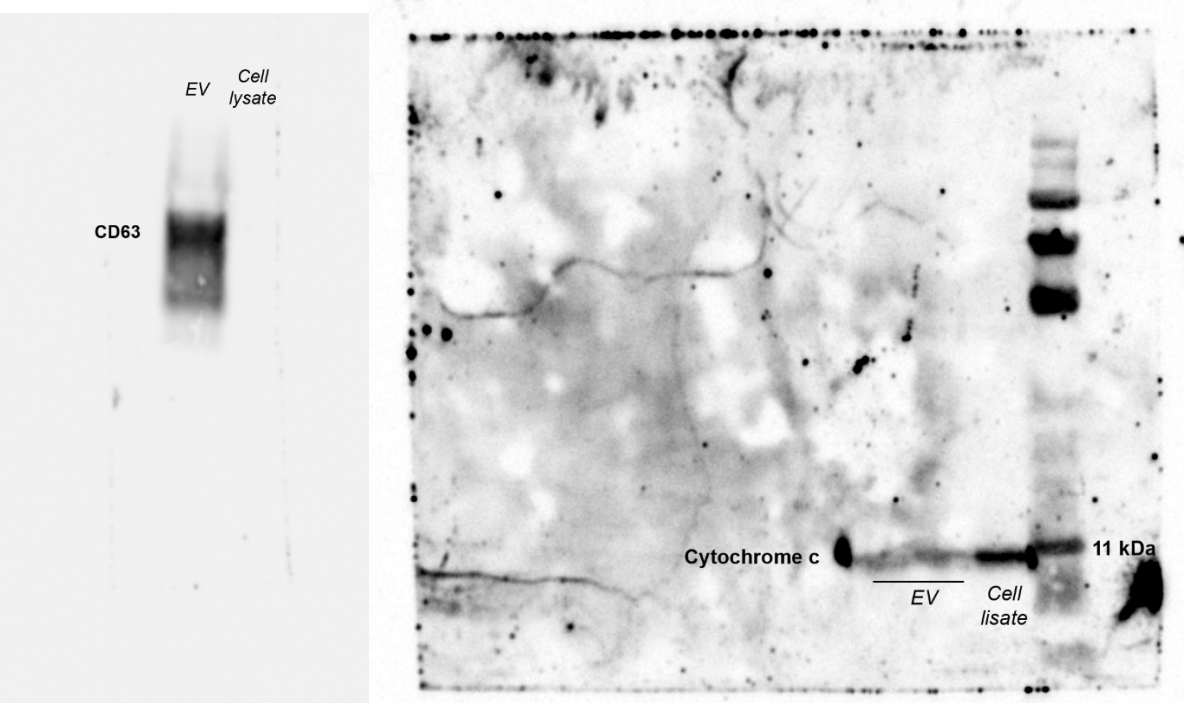

Figure S1. Western blot raw data showing the presence of cytochrome c in the cell lysate and CD63 in EVs.

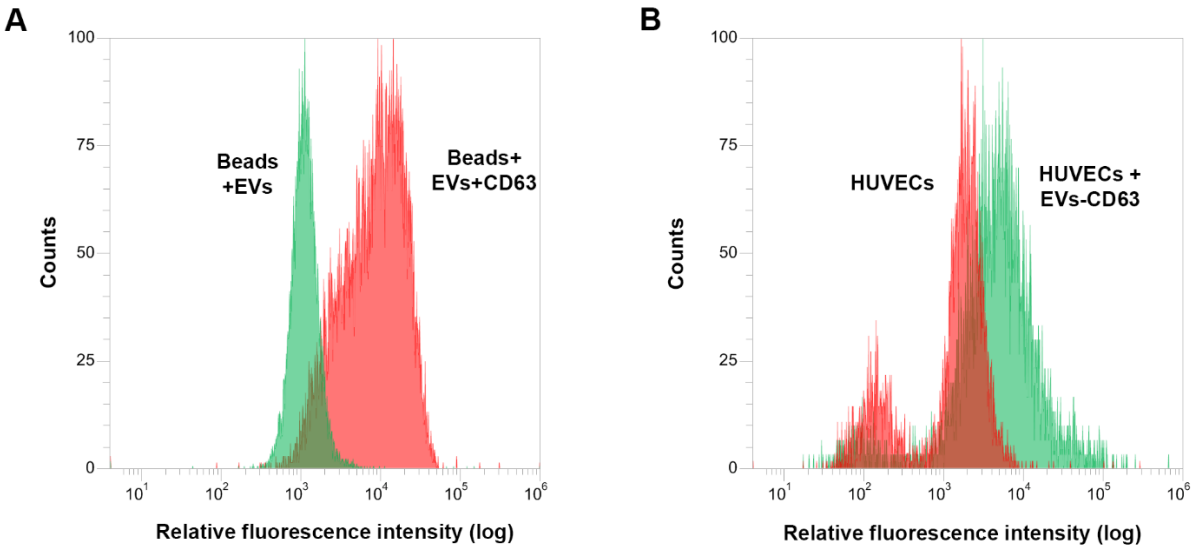

Figure S2. FACs analysis proving the interaction of HUVECs with EVs. A) EVs were conjugated with latex beads and stained with CD63. Beads conjugated with EVs without any staining were used as a control group. B) Flow cytometry analysis of HUVECs showing the successful internalization of EVs stained with CD63. HUVECs without any treatment with EVs served as the control group.

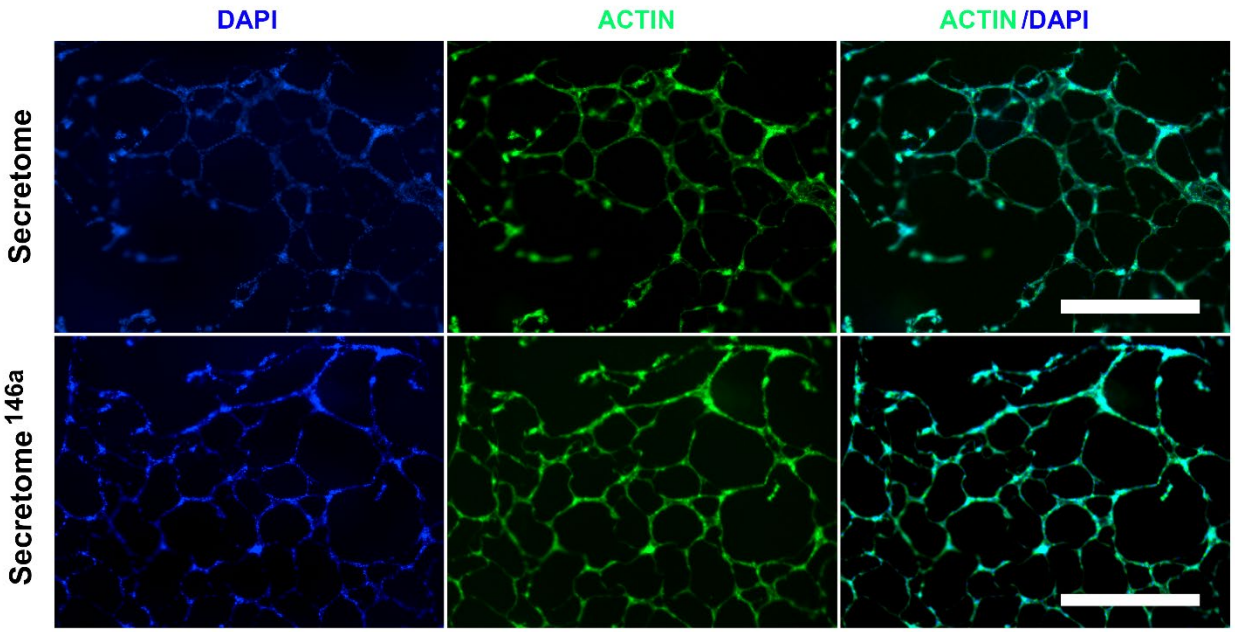

Figure S3. Actin DAPI fluorescent images of HUVECs seeded on Matrigel and cultured in media supplemented with secretome and secretome enriched with EVs containing microRNA 146a. Pictures were taken at 4 X. Scale bars =1000 μm.

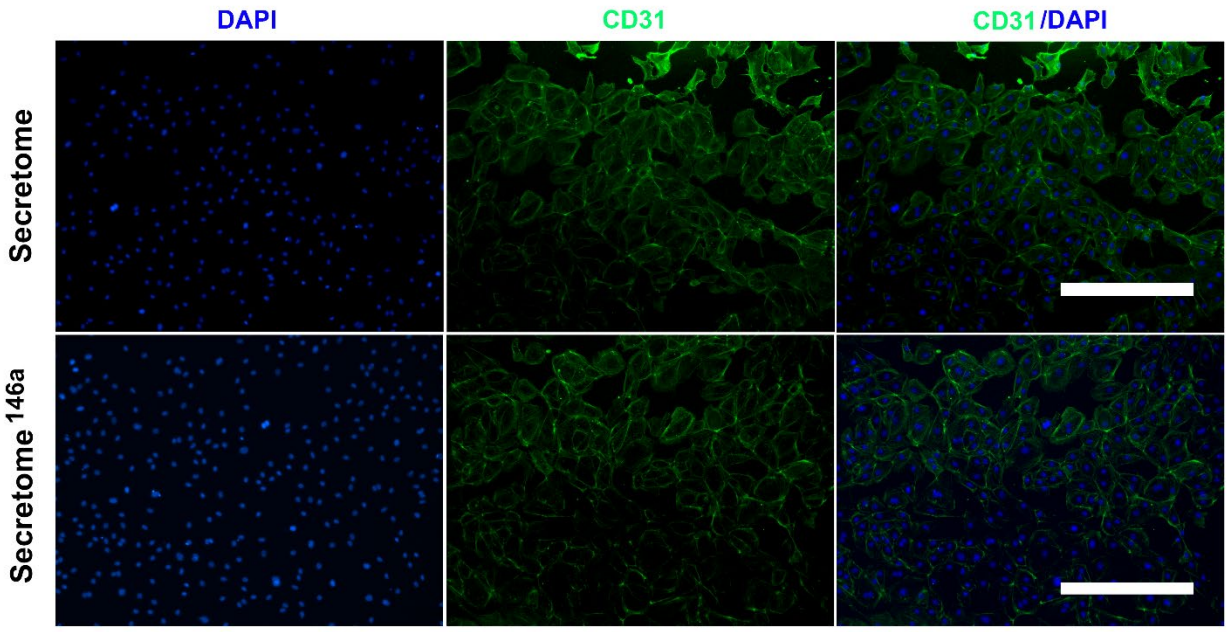

Figure S4. CD31 and DAPI fluorescent images of HUVECs cultured in media supplemented with secretome and secretome enriched with EVs containing microRNA 146a. Pictures were taken at 10X. Scale bars = 400 μm.