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Supplemental information

Distinct impacts of substrate elasticity and ligand affinity on traction force evolution

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Figure S1: Spreading of HUVECs on polyacrylamide hydrogels with defined stiffness and ligand affinity. Images were taken with a time-lapse microscope in differential interference contrast (DIC) after 0 min, 9 min, 30 min and 60 min. Shifts between images were corrected with the StackReg plugin in ImageJ. An averaged image over all frames of the stack was subtracted from all images of the stack to enhance contrast. Image size is $(161\mu m)^2$.



Figure S2: Traction stress field of HUVECs on polyacrylamide hydrogels with defined stiffness and ligand affinity. Calculated traction stress field after 9 min, 30 min, 60 min and 120 min. Image size is $(161\mu m)^2$.