Supporting Information

Figure S1. EDC/NHS ratio and concentrations optimization. (a) optimization of the coupling agents EDC/NHS ratio; (b) optimization of the individual EDC and NHS concentrations, maintaining the previously optimized ratio 1:4; (c) optimization of the final concentration of the EDC/NHS mixture (50 mM EDC + 200 mM NHS, optimized before) in the antibody solution.



Figure S2. Standard curves for single antibody immobilization at the surface of activated and functionalized electrospun nanofibers. a) TGF- β 1 antibody standard curve varying between 0.3 g ml⁻¹ and the maximum concentration that can be immobilized (i.e. 12 µg ml⁻¹). b) bFGF antibody standard curve ranges from 0 µg ml⁻¹ to 8 µg ml⁻¹; and c) VEGF antibody standard curve varies between 0 µg ml⁻¹ and 4 µg ml⁻¹.

