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Figure S1: Iron oxide nanoparticles fabrication



Figure S2: Cross-linking of carboxymethyl cellulose (CMC) and polyethylene glycol (PEG)



Figure S3: Behavior of iron oxide NPs A) in absence and B) in presence of an external magnetic field



Figure S4: Untreated HLF immuno-fluorescence assay of anti-TGF β . A) Cells nuclei stained by DAPI (blue channel); B) TGF β stained by secondary anti-rabbit AF647 (far red channel); C) Transmission channel; D) Overlay channel. Zoom 4x. Scale bar 5 µm (yellow bar).



Figure S5: Free AlK1fc immuno-fluorescence assay of anti-TGF β . A) Cells nuclei stained by DAPI (blue channel); B) TGF β stained by AF647 anti-rabbit secondary antibody (red channel); C) transmission channel D) Overlay channel. Zoom 4X. Scale bar 5 µm (yellow bar).