

Supporting Information

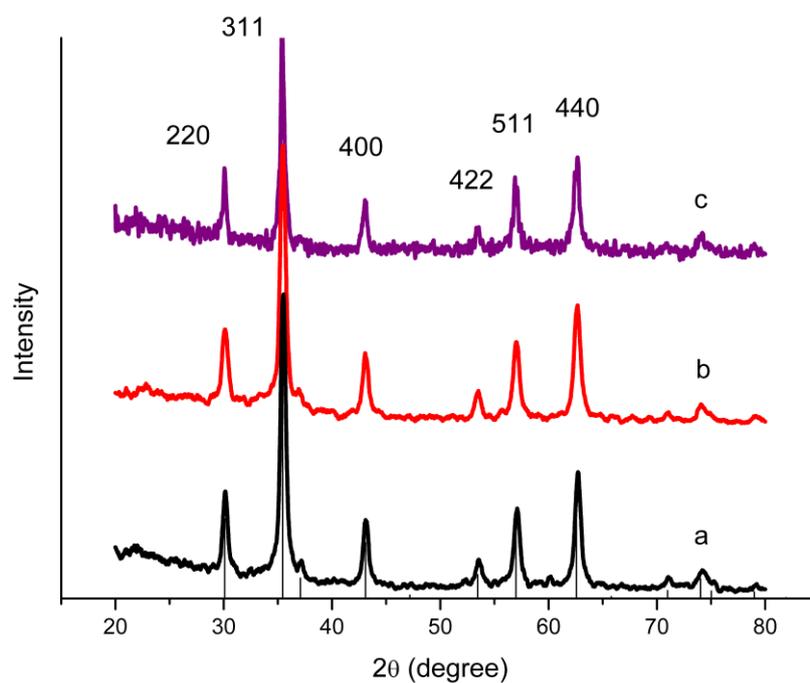


Figure S1. X-ray diffraction patterns of Fe₃O₄ (a), Fe₃O₄@SiO₂ (b) and Fe₃O₄@SiO₂@APES (c).

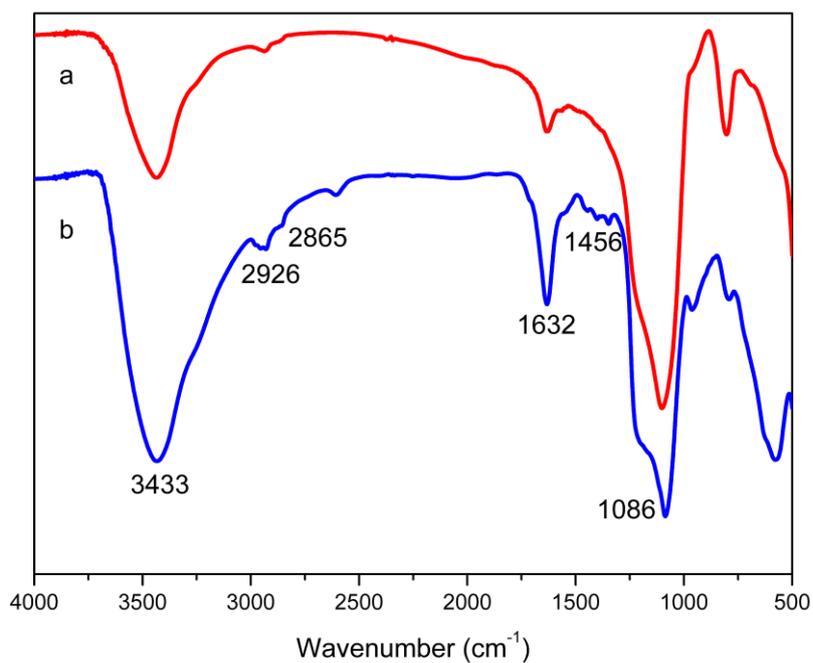


Figure S2. FTIR spectra of Fe₃O₄@SiO₂ (a) and immobilized ALP magnetic nanoparticles (b).

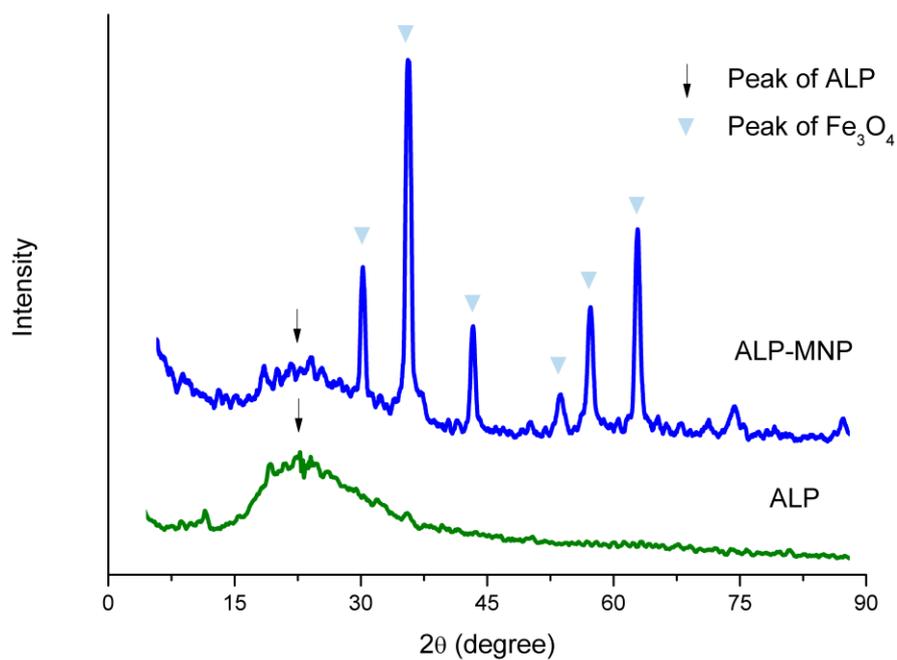


Figure S3. X-ray diffraction patterns of immobilized ALP magnetic nanoparticles and free ALP.