

Experimental Evaluation of Quantum Dots and Antibodies Conjugation by Surface Plasmon Resonance Spectroscopy

Anton Popov ^{1,2*}, Viktorija Lisyte ², Asta Kausaite-Minkstimiene ^{1,2}, Eiva Bernotiene ^{3,4},
Almira Ramanaviciene ^{1,2*}

¹ Department of Immunology, State Research Institute Centre for Innovative Medicine, Santariskiu Str. 5, LT-08406 Vilnius, Lithuania

² NanoTechnas—Center of Nanotechnology and Materials Science, Institute of Chemistry, Faculty of Chemistry and Geosciences, Vilnius University, Naugarduko Str. 24, LT-03225 Vilnius, Lithuania

³ Department of Regenerative Medicine, State Research Institute Centre for Innovative Medicine, Santariskiu Str. 5, LT-08406 Vilnius, Lithuania

⁴ Department of Chemistry and Bioengineering, The Faculty of Fundamental Sciences, Vilnius Gediminas Technical University, Vilnius-Tech, LT-10223 Vilnius, Lithuania

* Correspondence: anton.popov@chgf.vu.lt (A.P.); almira.ramanaviciene@chf.vu.lt (A.R.)

Supplementary data

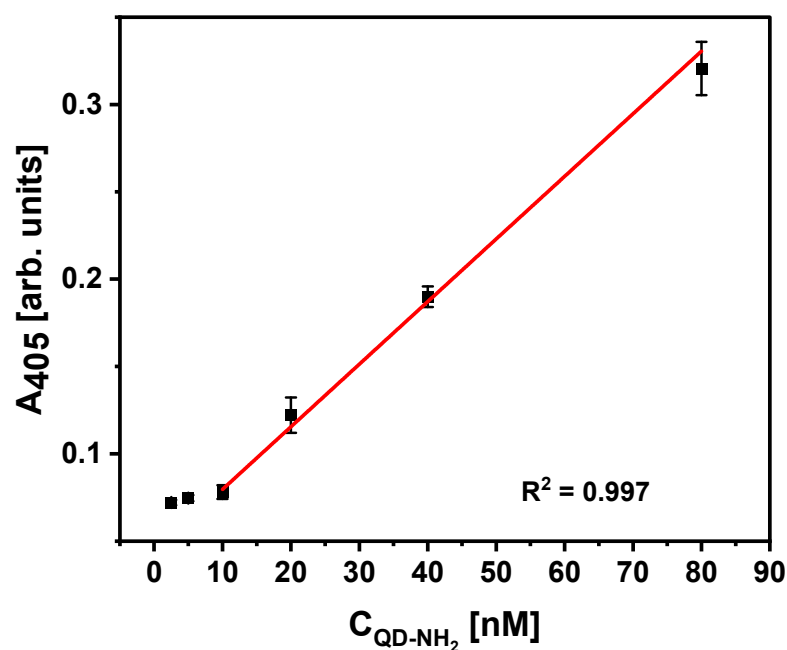


Figure S1. Calibration curve of QDs-NH₂ present in the solution.

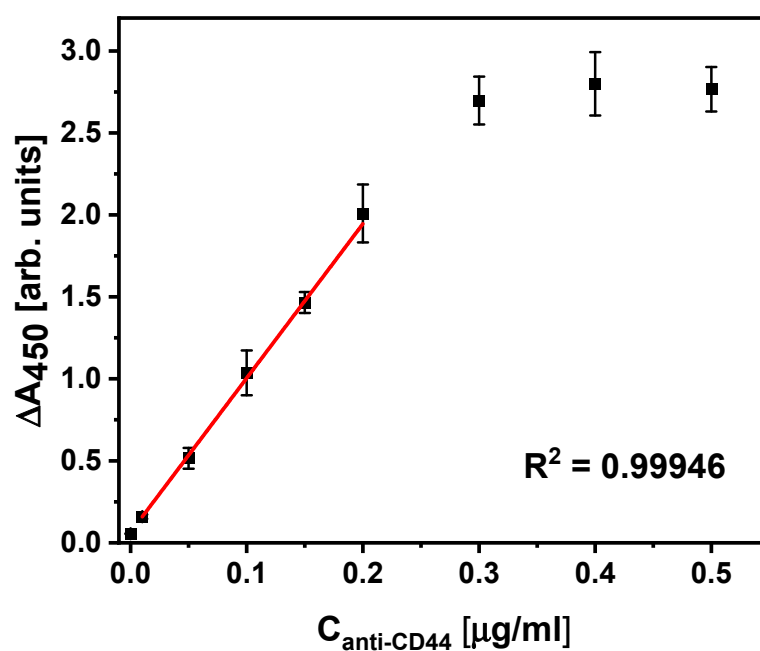


Figure S2. The calibration curve for detection of anti-CD44 antibody using direct ELISA format.

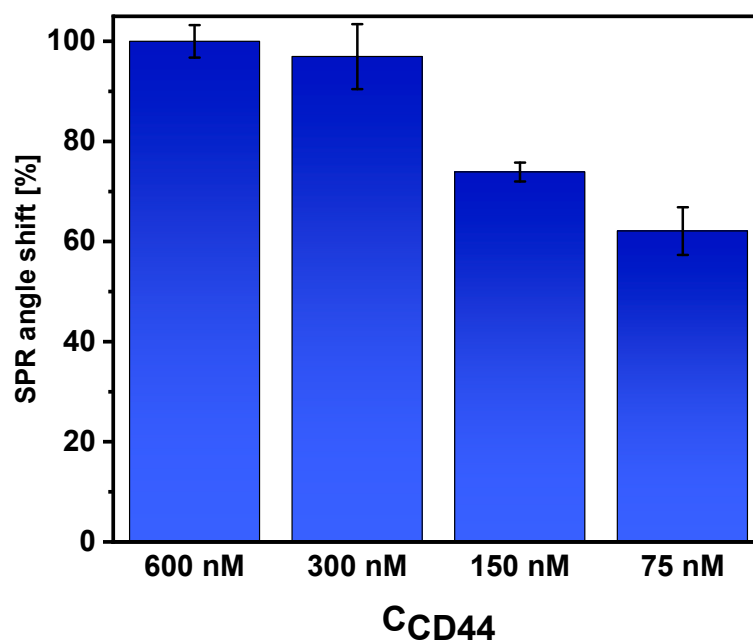


Figure S3. Interaction of QDs-NH₂ : anti-CD44 conjugates with CD44 biomarker, immobilized on the surface of sensor disk using initial CD44 concentrations of 75, 150, 300, and 600 nM.