Detection of melanoma using antibody-conjugated quantum dots in coculture model for high through-put screening system

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1. Determination of number of antibodies per QD using BCA assay.

Figure S1. Quantitative analysis of the antibodies conjugated to QD by conventional bicinchoninic acid (BCA) assay. UV-vis spectra of different concentration of melanoma antibodies (Ab732 or Ab733) after BCA reagent according to the protocol provided by the manufacturer (Biorad) was obtained (left). The resulting calibration curve on the right ($R^2 = 0.99$) was used to calculate the concentration of the antibody in the filtrate after membrane filtration of the reaction mixture using 100 kDa molecular cut-off membrane.