



Supplementary Information

Fluorescence Signal Enhancement in Antibody Microarrays Using Lightguiding Nanowires

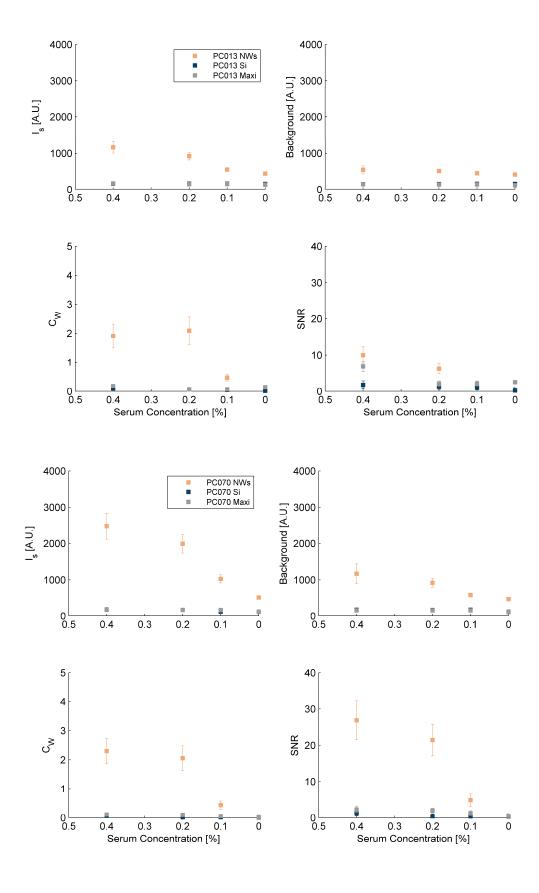
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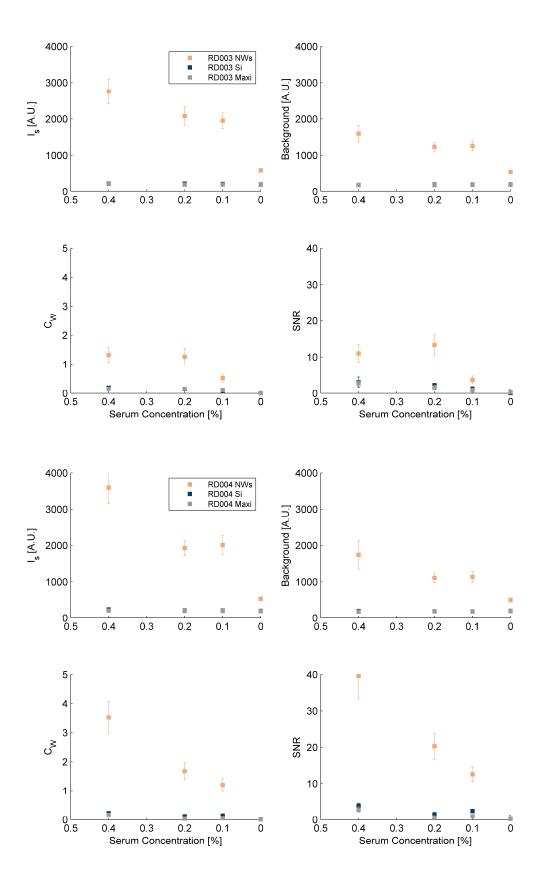
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1. Data for all tested scFvs

The following graphs show extracted values of signal intensity Is, Weber contrast CW and signal to noise ration SNR for the various scFvs on the three substrates tested for all the tested serum concentrations. Only PC070 is reproduced in the main text as example in Fig 4.

In all the following graphs nanowires are indicated as NWs (organge), flat silicon wafer as Si (blue) and MaxiSorp plastic as Maxi (gray).





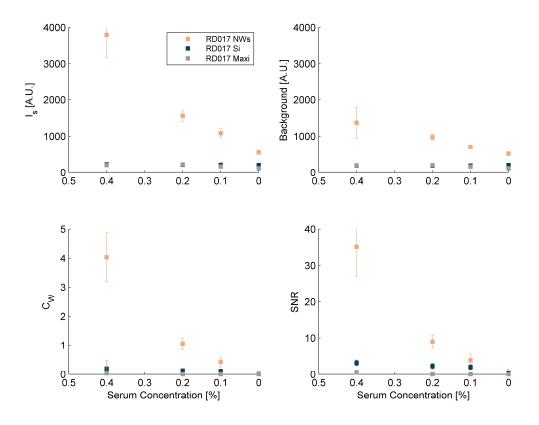


Figure S1: Data for all tested scFvs.

2. Comparison graph in logarithmic scale

Extracted values of signal intensity Is, Weber contrast CW and signal to noise ration SNR for the various scFvs on the three substrates tested with 0.4% serum concentration (as shown in Fig.4 of the main text) in logarithmic scale to better compare flat silicon wafers and MaxiSorp plastic slides. Overall silicon and MaxiSorp samples performed similarly.

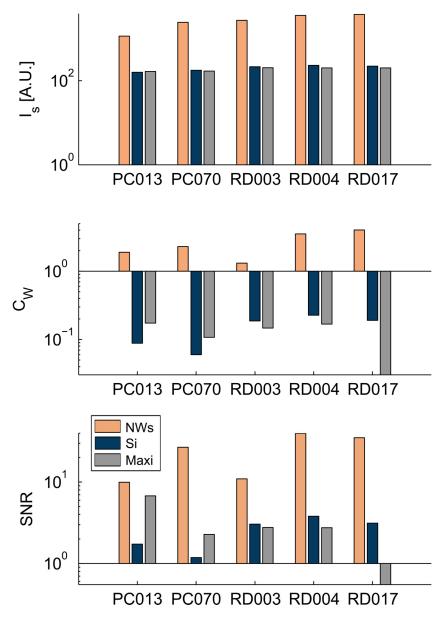


Figure S2: Figure 4a plotted in logarithmic scale.