Direct immunoassays and their performance - theoretical modelling of the effects of antibody orientation and associated kinetics

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Supporting Information

Figures S1-S3 compare the signal curves associated with different antibody binding abilities. These simulations are repeated for three different orientations (Side 1, Mixed 2 and Up 1) and the low and high antigen concentration cases (represented by dashed and solid curves, respectively) are shown in the same diagram, for simplicity.

Figure S1: Comparison of different binding abilities (Case 1, Case 2 and Case 3) for both low \( \alpha = 0.5 \), dashed lines and high \( \alpha = 5 \), solid lines) antigen concentration, in a side-on antibody orientation.
Figure S2: Comparison of different binding abilities (Case 1, Case 2 and Case 3) for both low ($\alpha = 0.5$, dashed lines) and high ($\alpha = 5$, solid lines) antigen concentration, in a mixed antibody orientation.

Figure S3: Comparison of different binding abilities (Case 1, Case 2 and Case 3) for both low ($\alpha = 0.5$, dashed lines) and high ($\alpha = 5$, solid lines) antigen concentration, in an end-on antibody orientation.