

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

Dana Mackey, Eilís Kelly, Robert Nooney and Richard O'Kennedy

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.

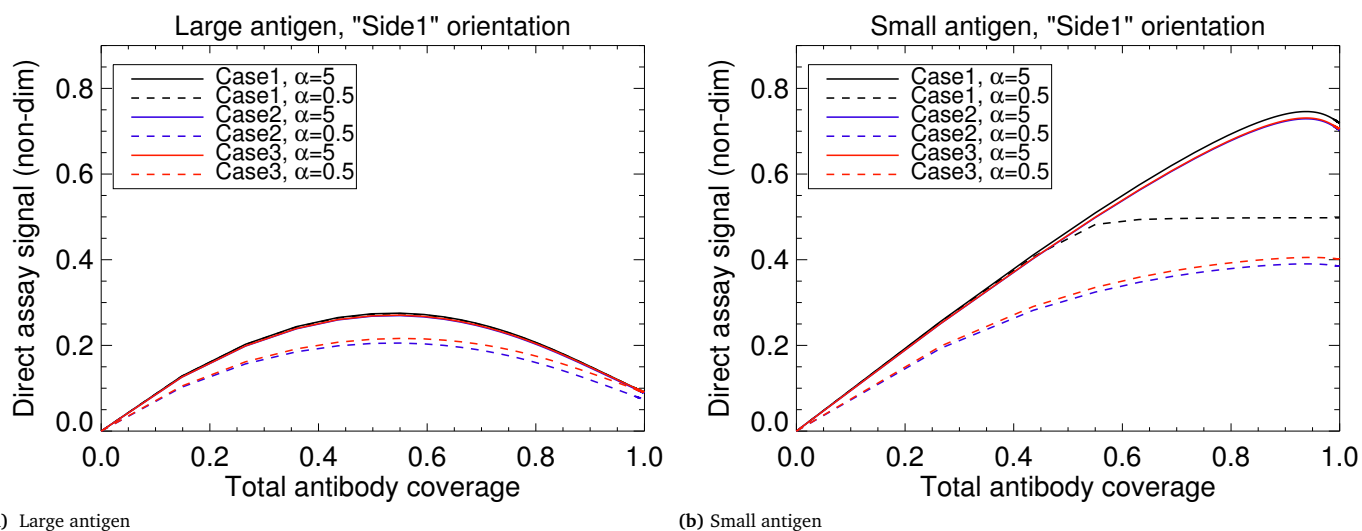


Figure S1: Comparison of different binding abilities (Case 1, Case 2 and Case 3) for both low ($\alpha = 0.5$, dashed lines) and high ($\alpha = 5$, solid lines) antigen concentration, in a side-on antibody orientation.

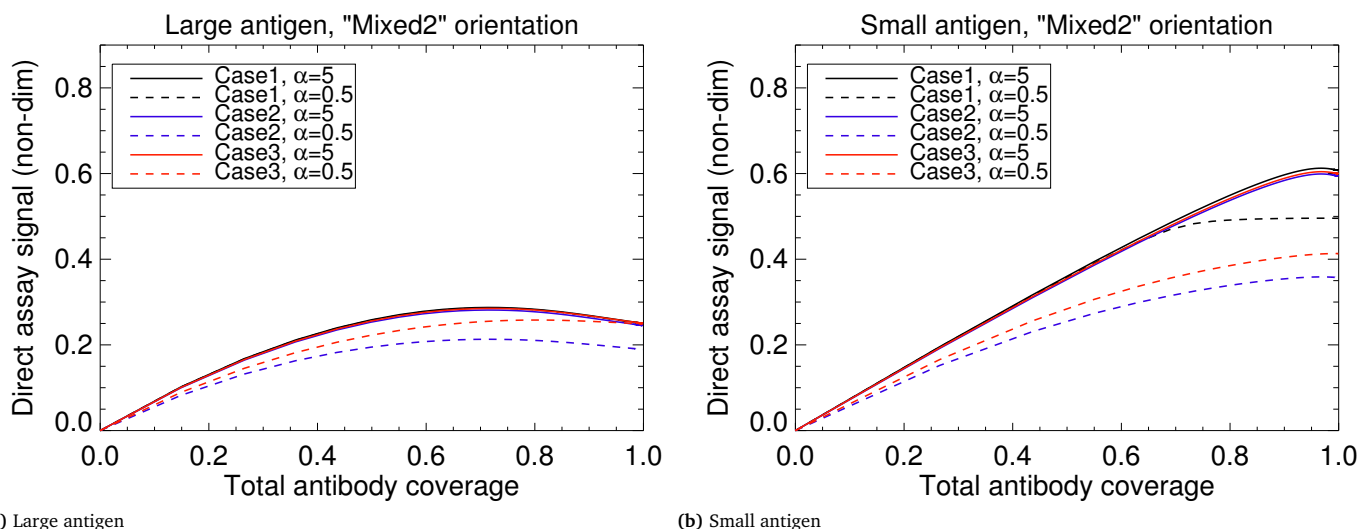


Figure S2: Comparison of different binding abilities (Case 1, Case 2 and Case 3) for both low ($\alpha = 0.5$, dashed lines) and high ($\alpha = 5$, solid lines) antigen concentration, in a mixed antibody orientation.

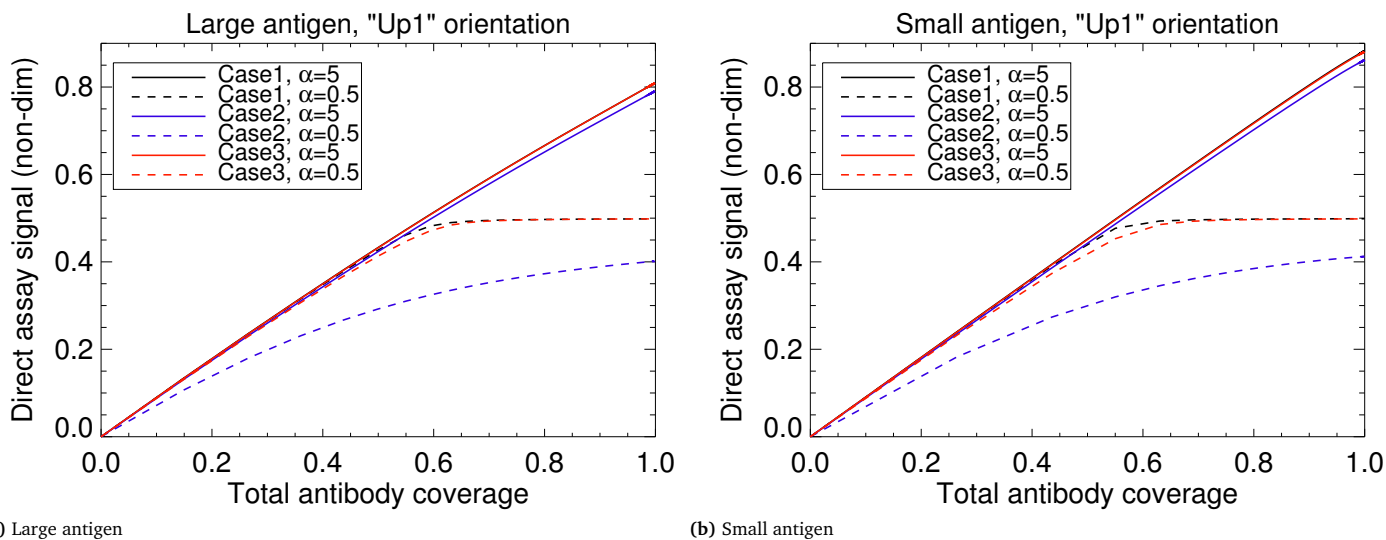


Figure S3: Comparison of different binding abilities (Case 1, Case 2 and Case 3) for both low ($\alpha = 0.5$, dashed lines) and high ($\alpha = 5$, solid lines) antigen concentration, in an end-on antibody orientation.