

Figure S1. Sequence of steps involved in the fabrication of the (A) aluminum hard masks; (B) SU-8 negative photoresist mold; and (C) PDMS structures used for trapping beads.

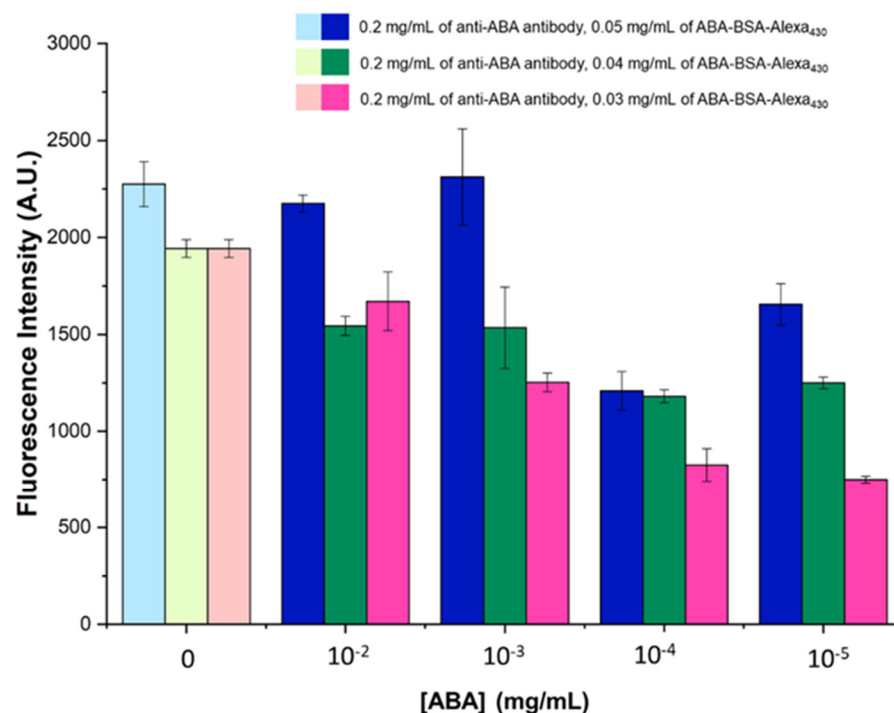


Figure S2. A selection of the results of optimization assays of the concentration of ABA-BSA conjugate to be used in the competitive immunoassay.

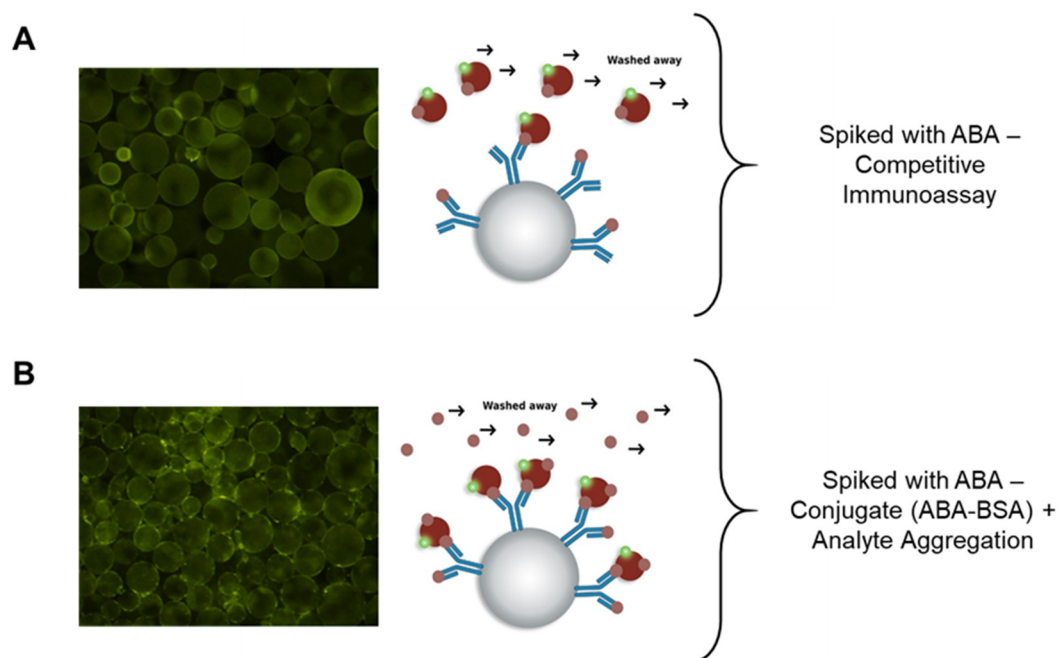


Figure S3. Proposed mechanisms of ABA detection at different ABA concentrations: (A) schematic of the competitive fluorescence immunoassay, with the respective fluorescence micrograph, present at low ABA concentrations; (B) schematic of the aggregation between the ABA-BSA conjugate and the analyte, with the respective fluorescence micrograph, highlighting the presence of aggregates, present at high ABA concentrations.

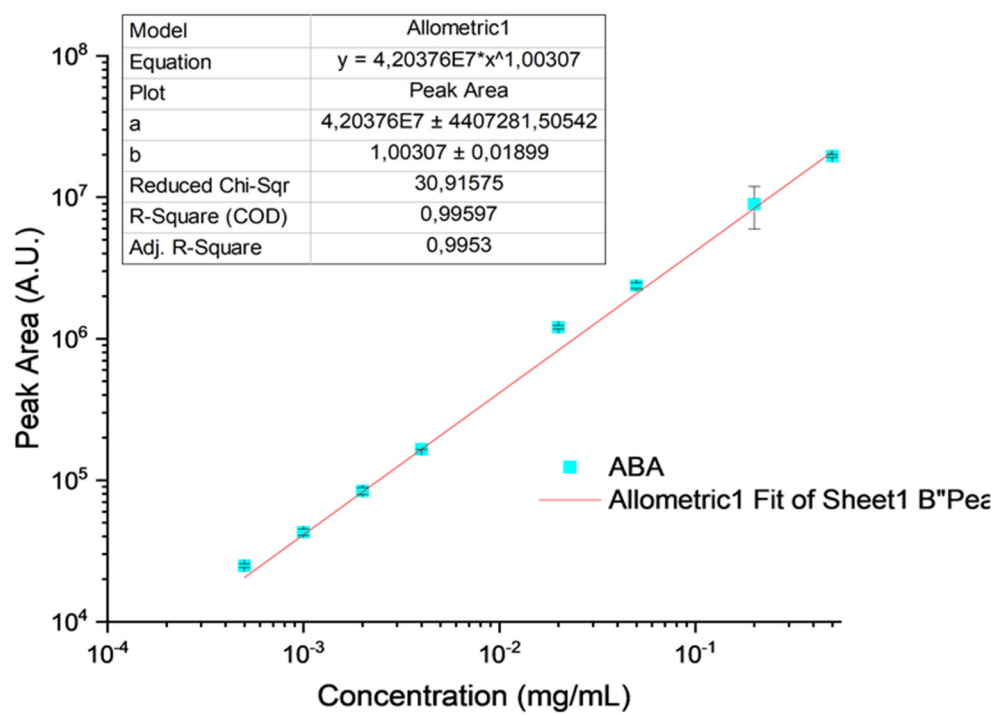


Figure S4. Calibration curve for different concentrations of ABA using in HPLC.