Additional file 5**.**

Two-component finite mixture model fitting to each antigen’s signal intensity from both immunoassays. For each immunoassay, top histograms are loge transformed data and bottom histograms are non-transformed data. For seropositivity cutoffs in Table 1, the mean and standard deviation of the first (leftmost) component was used. Maximum likelihood estimation methods were unable to fit a second component to the ELISA AMA-1 data.

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