Supplementary Figure 1. Reactivity of antibody reagents with* P. falciparum *IEs expressing IT4VAR04 on the surface

IgG reactivity of IT4VAR04-positive IEs with pools of human plasma (1:20) from Danish control donors (gray), malaria-unexposed Colombians (red), malaria-infected Colombian pregnant women (green), and malaria-exposed Ghanaian women with one or more previous pregnancies (blue) (**A**). Reactivity of IT4VAR04-positive IEs with the PvDBP-specific mouse monoclonal antibody 3D10 (10 µg/mL) (**B**, **C**), an unspecific mouse IgG antibody (**D**), the *Pv*DBP-specific human monoclonal antibody DBL10 (10 µg/mL) (**E**), and a rabbit *Pv*DBP-specific serum (**F**).

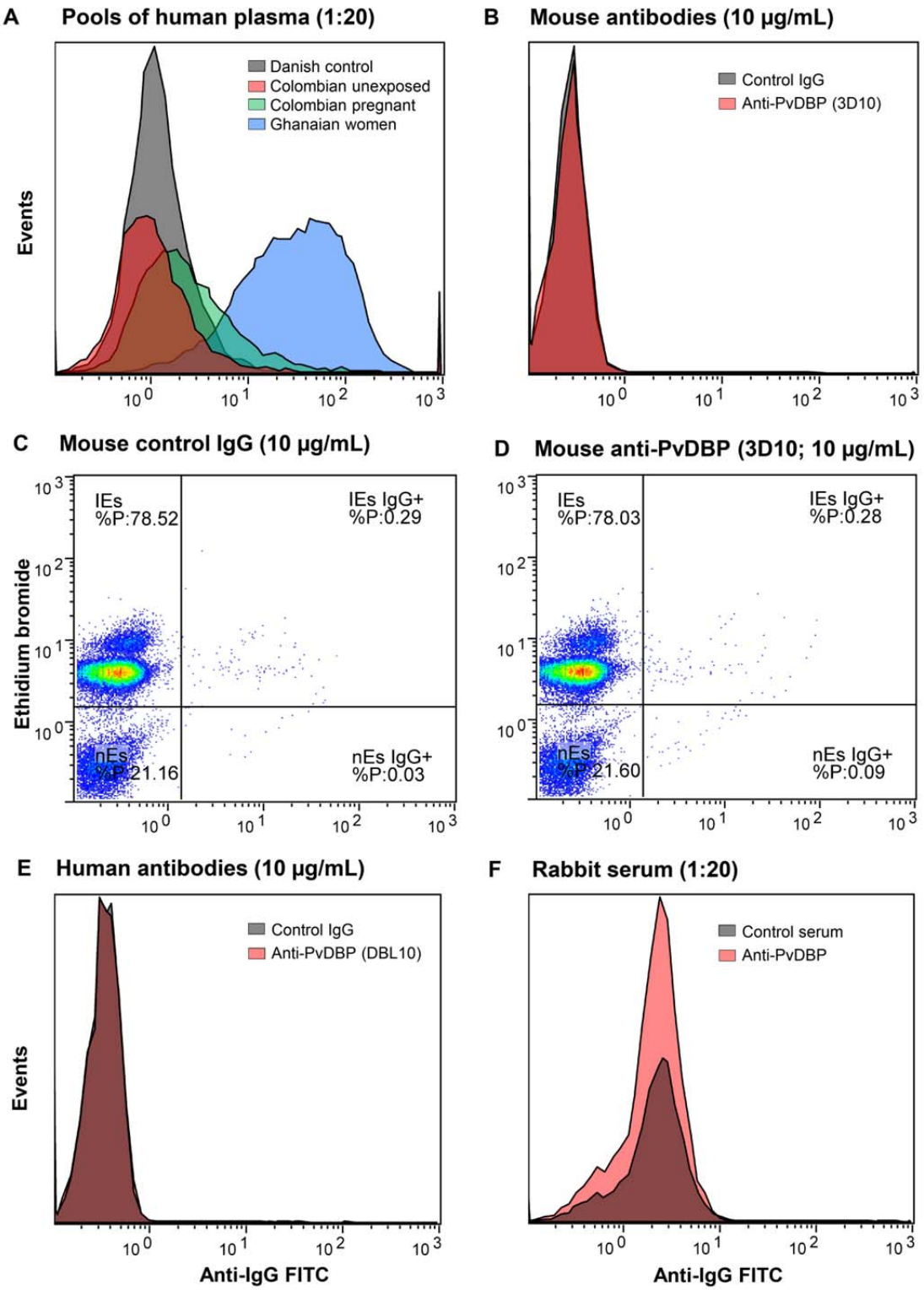
Supplementary Figure 2. Reactivity of antibody reagents with* P. falciparum *IEs selected to express HB3VAR06 on the surface

IgG reactivity of HB3VAR06-positive IEs with pools of human plasma from Danish control donors (gray), malaria-unexposed Colombians (red), malaria-infected Colombian pregnant women (green), and malaria-exposed Ghanaian women with one or more previous pregnancies (blue) (**A**). Reactivity of HB3VAR06-positive IEs with the PvDBP-specific mouse monoclonal antibody 3D10 (**B**), the PvDBP-specific human monoclonal antibody DBL10 (**C**), and a rabbit PvDBP-specific serum (**D**).

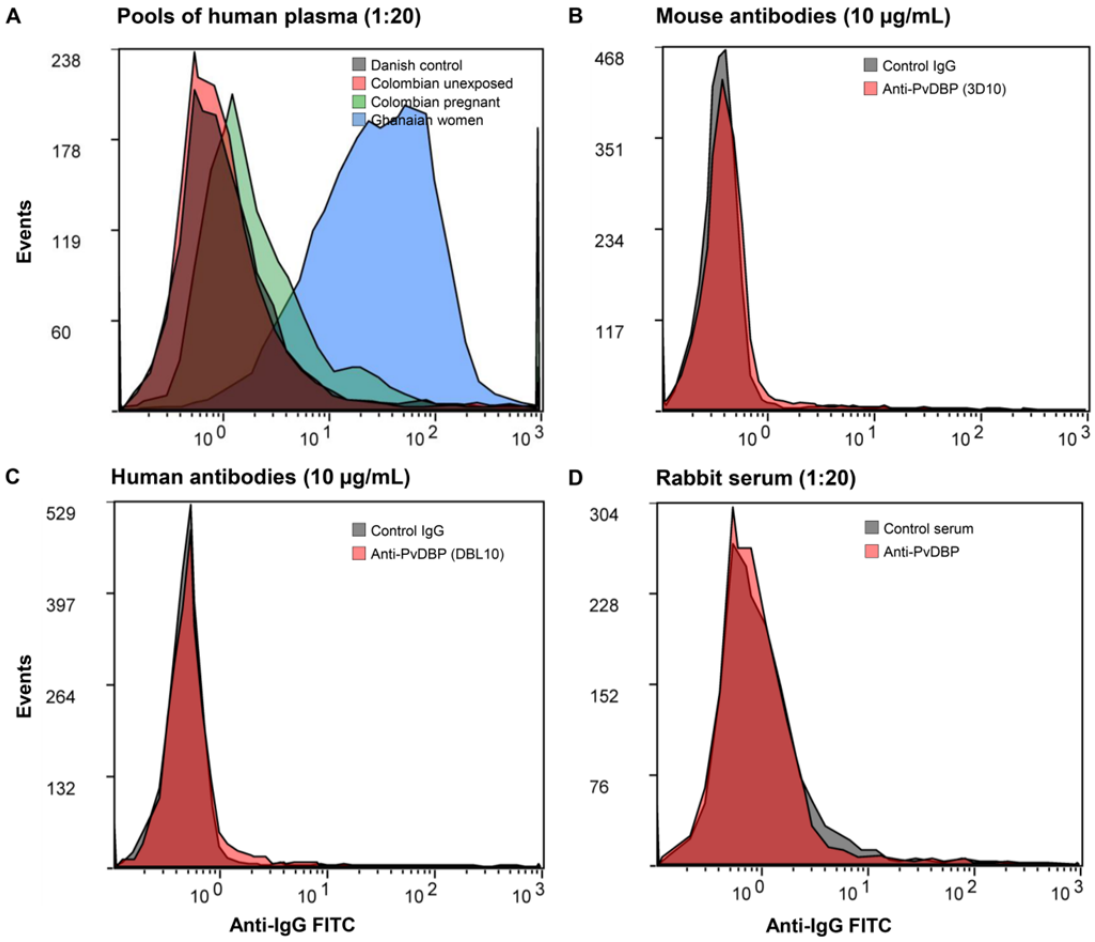
Supplementary Figure 3. Correlation of antibody responses to native and recombinant VAR2CSA-type PfEMP1

Correlation (r_s) of IgG levels against recombinant ($FV2_{CHO}$; determined by ELISA) and corresponding native (IT4VAR04; determined by flow cytometry) VAR2CSA-type PfEMP1 proteins in individual samples from Set 1a/2a (**A**), 1b/2b (**B**), and 2c (**C**). Panel layout as in Fig. 3D.

Supplementary Fig. 1



Supplementary Fig. 2



Supplementary Fig. 3