Supplementary Materials

Supplementary Table S1. Adjusted odds ratios for placental *P. falciparum* infection in high antibody responders relative to low responders with effect modification by infection at enrolment status

	Infected				Uninfect	ted			Likelihood ratio test (p value)
Antibody	OR	LL	UL	р	OR	LL	UL	р	
DBL3 (7G8)	0.57	0.24	1.37	0.208	2.24	1.18	4.25	0.014	0.009
DBL5 (3D7)	0.17	0.06	0.52	0.002	1.97	1.03	3.77	0.039	<0.001
DBL5 (7G8)	0.58	0.29	1.19	0.140	1.71	0.95	3.09	0.074	0.011
PfCS2-IE	0.80	0.56	1.15	0.227	1.10	0.82	1.46	0.531	0.107
AMA1 - (3D7)	0.94	0.47	1.85	0.848	0.97	0.57	1.67	0.925	0.911

Antibodies were modeled as a continuous exposure. A high antibody responder is considered to have the 75th percentile value for each antibody; a low antibody responder is considered to have the 25th percentile value for each antibody. LL = lower limit of 95% CI; UL = upper limit of 95% CI. OR – odds ratio.

Supplementary Table S2. Adjusted odds ratios for placental *P. falciparum* infection in high antibody responders relative to low responders with effect modification by gravidity (primigravid/multigravida)

	Primigra	vid			Multigra	vid	Likelihood ratio test (p value)		
Antibody	OR	LL	UL	р	OR	LL	UL	р	
DBL3 (7G8)	0.86	0.37	1.99	0.719	1.84	0.98	3.46	0.059	0.147
DBL5 (3D7)	0.47	0.20	1.11	0.085	1.54	0.80	2.98	0.194	0.027
DBL5 (7G8)	0.88	0.40	1.91	0.740	1.34	0.78	2.31	0.291	0.367
PfCS2-IE	1.06	0.61	1.86	0.825	0.99	0.77	1.28	0.937	0.810
AMA1 - (3D7)	1.04	0.56	1.94	0.900	0.94	0.52	1.69	0.831	0.811

Antibodies were modeled as a continuous exposure. A high antibody responder is considered to have the 75th percentile value for each antibody; a low antibody responder is considered to have the 25th percentile value for each antibody. LL = lower limit of 95% CI; UL = upper limit of 95% CI. OR- odds ratio.

Supplementary Table S3. Adjusted odds ratios for placental *P. falciparum* infection in high antibody responders relative to low responders without effect modification

	All women			
Antibody	OR	LL	UL	р
DBL3 (7G8)	1.41	0.85	2.36	0.184
DBL5 (3D7) DBL5 (7G8)	1.00 1.17	0.59 0.74	1.69 1.86	0.995 0.492
PfCS2-IE	1.00	0.79	1.27	0.987
AMA1 - (3D7)	0.99	0.64	1.52	0.946

Antibodies were modeled as a continuous exposure. A high antibody responder is considered to have the 75th percentile value for each antibody; a low antibody responder is considered to have the 25th percentile value for each antibody. LL = lower limit of 95% CI; UL = upper limit of 95% CI. OR – odds ratio

Supplementary Table S4. Adjusted mean difference in birth weight (grams) in high antibody responders relative to low responders with effect modification by infection at enrolment

	Infected				Uninfected				Likelihood ratio test (p value)
Antibody	Birth weight (grams)	LL	UL	р	Birth weight (grams)	LL	UL	р	
DBL3 (7G8)	+35	-106	+176	0.622	-13	-115	+89	0.800	0.572
DBL5 (3D7)	+149	+1	+298	0.049	-3	-112	+106	0.954	0.093
DBL5 (7G8)	+115	-7	+237	0.064	-8	-107	+91	0.877	0.110
PfCS2-IE	+86	+22	+150	0.008	-4	-51	+44	0.879	0.019
AMA1 - (3D7)	-62	-178	+55	0.299	25	-67	+117	0.596	0.236

Antibodies were modeled as a continuous exposure. A high antibody responder is considered to have the 75th percentile value for each antibody; a low antibody responder is considered to have the 25th percentile value for each

antibody. LL = lower limit of 95% Cl; UL = upper limit of 95% Cl

Supplementary Table S5. Adjusted mean difference in birth weight (grams) in high antibody responders relative to low responders with effect modification by gravidity (primigravid/multigravida)

	Primigravio	d			Multigravid	I			Likelihood ratio test (p value)
Antibody	Birth weight (grams)	LL	UL	р	Birth weight (grams)	LL	UL	р	
DBL3 (7G8)	+8	-126	+142	0.904	+1	-102	+103	0.991	0.926
DBL5 (3D7)	+73	-70	+217	0.316	+36	-74	+146	0.517	0.672
DBL5 (7G8)	+73	-56	+202	0.267	+24	-70	+118	0.611	0.525
PfCS2-IE	+72	-27	+172	0.152	+20	-23	+62	0.361	0.319
AMA1 - (3D7)	-74	-178	+29	0.159	+55	-46	+157	0.286	0.072

Antibodies were modeled as a continuous exposure. A high antibody responder is considered to have the 75th

percentile value for each antibody; a low antibody responder is considered to have the 25^{th} percentile value for each antibody. LL = lower limit of 95% CI; UL = upper limit of 95% CI

Supplementary Table S6. Adjusted mean difference in birth weight (grams) in high antibody responders relative to low responders without effect modification

		All wor	men	
	Birth weight			
Antibody	(grams)	LL	UL	р
DBL3 (7G8)	+3	-80	+87	0.936
DBL5 (3D7)	+50	-40	+139	0.274
DBL5 (7G8)	+41	-38	+119	0.309
PfCS2-IE	+27	-12	+67	0.176
AMA1 - (3D7)	-8	-81	+65	0.825

Antibodies were modeled as a continuous exposure. A high antibody responder is considered to have the 75th percentile value for each antibody; a low antibody responder is considered to have the 25th percentile value for each antibody. LL = lower limit of 95% CI; UL = upper limit of 95% CI

Supplementary Table S7. Adjusted mean difference in gestational age at delivery (weeks) in high antibody responders relative to low responders with effect modification by infection at enrolment

		Infected					Uninfected				
Antibody	Birthweight (grams)	LL	UL	р	Birthweight (grams)	LL	UL	р			
DBL3 (7G8)	-0.48	-1.23	+0.26	0.199	+0.11	-0.43	+0.65	0.682	0.187		
DBL5 (3D7)	+0.28	-0.53	+1.10	0.494	+0.36	-0.23	+0.96	0.231	0.873		
DBL5 (7G8)	-0.02	-0.68	+0.63	0.942	+0.25	-0.28	+0.78	0.349	0.500		
PfCS2-IE	-0.07	-0.43	+0.30	0.723	+0.21	-0.05	+0.46	0.107	0.198		
AMA1 - (3D7)	+0.02	-0.62	+0.65	0.960	+0.09	-0.41	+0.59	0.727	0.856		

Antibodies were modeled as a continuous exposure. A high antibody responder is considered to have the 75th percentile value for each antibody; a low antibody responder is considered to have the 25th percentile value for each antibody. LL = lower limit of 95% CI; UL = upper limit of 95% CI

Supplementary Table S8. Adjusted mean difference in gestational age at delivery (weeks) in high antibody responders relative to low responders with effect modification by gravidity (primigravid/multigravida)

	Primigravio	i			Multigravid				Likelihood ratio test (p value)
Antibody	Gestational age (weeks)	l LL	UL	р	Gestational age (weeks)	LL	UL	р	
DBL3 (7G8)	+0.01	-0.71	+0.73	0.986	-0.14	-0.68	+0.39	0.596	0.729
DBL5 (3D7)	+0.58	-0.20	+1.36	0.145	+0.20	-0.40	+0.80	0.516	0.423
DBL5 (7G8)	+0.23	-0.48	+0.94	0.524	+0.10	-0.39	+0.60	0.682	0.764
PfCS2-IE	+0.19	-0.49	+0.88	0.575	+0.12	-0.11	+0.34	0.313	0.826
AMA1 - (3D7)	-0.08	-0.65	+0.49	0.774	+0.19	-0.35	+0.74	0.487	0.481

Antibodies were modeled as a continuous exposure. A high antibody responder is considered to have the 75th

percentile value for each antibody; a low antibody responder is considered to have the 25^{th} percentile value for each antibody. LL = lower limit of 95% CI; UL = upper limit of 95% CI

Supplementary Table S9. Adjusted mean difference in gestational age at delivery (weeks) in high antibody responders relative to low responders without effect modification

					_
	All women				
	Gestational				
Antibody	age (weeks)	LL	UL	р	
DBL3 (7G8)	-0.09	-0.53	+0.35	0.681	
DBL5 (3D7)	+0.34	-0.15	+0.82	0.175	
DBL5 (7G8)	+0.14	-0.27	+0.56	0.499	
PfCS2-IE	+0.12	-0.09	+0.34	0.262	
AMA1 - (3D7)	+0.06	-0.33	+0.45	0.761	

Antibodies were modeled as a continuous exposure. A high antibody responder is considered to have the 75th percentile value for each antibody; a low antibody responder is considered to have the 25th percentile value for each antibody. LL = lower limit of 95% CI; UL = upper limit of 95% CI