

SUPPLEMENTAL TABLE 1. HLA homozygosity associations with antibody responses to anthrax protective antigen

Parameter	Level	N	Median (IgG, $\mu\text{g/ml}$)	Q1	Q3	P-value
HLA Locus						
A (4 digit)	Heterozygous	229	236.0	121.0	390.9	0.199
	Homozygous	42	215.2	84.3	361.7	
B (4 digit)	Heterozygous	255	226.8	113.6	381.1	0.518
	Homozygous	16	260.9	144.7	435.7	
C (4 digit)	Heterozygous	246	225.7	110.5	381.1	0.404
	Homozygous	25	288.2	178.0	418.0	
DRB1 (4 digit)	Heterozygous	245	228.3	116.9	388.6	0.866
	Homozygous	26	217.9	104.6	323.4	
DPA1 (4 digit)	Heterozygous	101	242.2	119.6	451.3	0.500
	Homozygous	170	222.6	113.6	362.4	
DQA1 (4 digit)	Heterozygous	221	224.6	111.3	391.6	0.904
	Homozygous	50	235.4	141.6	362.6	
DPB1 (4 digit)	Heterozygous	211	236.0	107.4	391.6	0.741
	Homozygous	60	219.4	118.6	381.9	
DQB1 (4 digit)	Heterozygous	229	237.6	118.4	406.1	0.259
	Homozygous	42	207.0	101.7	311.3	
Any Locus (4 digit)	Heterozygous	69	260.2	132.5	451.3	0.109
	Homozygous	202	222.6	110.5	362.6	
Number Homozygous (4 digit)	0	69	260.2	132.5	451.3	0.413
	1	81	208.9	101.9	347.9	
	2	68	233.2	146.4	428.3	
	3	25	203.6	101.4	314.6	
	4+	28	213.1	120.4	317.4	
A (2 digit)	Heterozygous	228	236.7	120.3	391.3	0.181
	Homozygous	43	214.9	84.3	361.7	
B (2 digit)	Heterozygous	250	227.6	113.6	381.1	0.325
	Homozygous	21	233.5	124.4	399.2	
C (2 digit)	Heterozygous	234	223.0	110.5	382.7	0.265
	Homozygous	37	258.0	178.0	399.2	

DRB1 (2 digit)	Heterozygous	229	237.6	119.5	391.7	0.028
	Homozygous	42	180.5	82.6	311.3	
DPA1 (2 digit)	Heterozygous	90	236.5	107.4	456.9	0.758
	Homozygous	181	224.2	116.9	362.4	
DQA1 (2 digit)	Heterozygous	186	235.9	116.9	413.3	0.082
	Homozygous	85	223.4	105.9	328.3	
DPB1 (2 digit)	Heterozygous	185	242.2	111.3	409.7	0.669
	Homozygous	86	215.8	116.2	348.2	
DQB1 (2 digit)	Heterozygous	181	242.2	119.5	406.1	0.153
	Homozygous	90	220.7	110.5	319.8	
Any Locus (2 digit)	Heterozygous	44	259.0	113.5	464.0	0.329
	Homozygous	227	224.6	113.6	370.7	
Number Homozygous (2 digit)	0	44	259.0	113.5	464.0	0.056
	1	57	260.6	106.9	413.3	
	2	78	235.9	141.6	380.5	
	3	39	214.9	110.5	381.1	
	4+	53	215.5	104.6	314.6	

P-values values for antibody levels were based on analyses using a logarithmic transformation.

Statistically significant P-values are in bold type ($P < 0.05$). Linear regression analysis adjusted for gender, age groups, study site, route of immunization, time between vaccination, time between blood draw and a number of AVA doses.