

Table S39: IgG+ B cells detected as VRC01-class detectable response rate testing between vaccine and placebo recipients by time point. Samples with epitope-specific cells but missing VRC01 calls are set to 0. Testing was done using Barnard's test (two-sided, $\alpha = 0.05$) and p values less than 0.05 are highlighted.

Comparison	Week (Visit)	Sample Type	Response Rates (95% Wilson CI)	P Value
Placebo vs. 20µg	Wk3 (V05)	FNA/IgG GC B cells	0/6 = 0.0% (0.0%, 39.0%) vs. 6/16 = 37.5% (18.5%, 61.4%)	0.0992
	Wk4 (V06)	PBMCs/IgG memory B cells	1/12 = 8.3% (1.5%, 35.4%) vs. 17/18 = 94.4% (74.2%, 99.0%)	<0.0001
	Wk8 (V07)	PBMCs/IgG memory B cells	1/12 = 8.3% (1.5%, 35.4%) vs. 15/18 = 83.3% (60.8%, 94.2%)	<0.0001
	Wk9 (V07A)	Fresh PBMCs/IgD- PBs	0/12 = 0.0% (0.0%, 24.2%) vs. 7/18 = 38.9% (20.3%, 61.4%)	0.0130
	Wk10 (V08)	PBMCs/IgG memory B cells	1/12 = 8.3% (1.5%, 35.4%) vs. 17/17 = 100.0% (81.6%, 100.0%)	<0.0001
	Wk11 (V09)	FNA/IgG GC B cells	0/6 = 0.0% (0.0%, 39.0%) vs. 3/14 = 21.4% (7.6%, 47.6%)	0.2888
	Wk16 (V10)	PBMCs/IgG memory B cells	0/12 = 0.0% (0.0%, 24.2%) vs. 16/18 = 88.9% (67.2%, 96.9%)	<0.0001
	Any Frozen Visit		2/12 = 16.7% (4.7%, 44.8%) vs. 17/18 = 94.4% (74.2%, 99.0%)	<0.0001
	Any V05/V06/V07		2/12 = 16.7% (4.7%, 44.8%) vs. 17/18 = 94.4% (74.2%, 99.0%)	<0.0001
	Any V07A/V08/V09/V10		1/12 = 8.3% (1.5%, 35.4%) vs. 18/18 = 100.0% (82.4%, 100.0%)	<0.0001
Placebo vs. 100µg	Any Visit		2/12 = 16.7% (4.7%, 44.8%) vs. 18/18 = 100.0% (82.4%, 100.0%)	<0.0001
	Wk3 (V05)	FNA/IgG GC B cells	0/6 = 0.0% (0.0%, 39.0%) vs. 10/16 = 62.5% (38.6%, 81.5%)	0.0092
	Wk4 (V06)	PBMCs/IgG memory B cells	1/12 = 8.3% (1.5%, 35.4%) vs. 17/18 = 94.4% (74.2%, 99.0%)	<0.0001
	Wk8 (V07)	PBMCs/IgG memory B cells	1/12 = 8.3% (1.5%, 35.4%) vs. 16/17 = 94.1% (73.0%, 99.0%)	<0.0001
	Wk9 (V07A)	Fresh PBMCs/IgD- PBs	0/12 = 0.0% (0.0%, 24.2%) vs. 10/17 = 58.8% (36.0%, 78.4%)	0.0009
	Wk10 (V08)	PBMCs/IgG memory B cells	1/12 = 8.3% (1.5%, 35.4%) vs. 15/17 = 88.2% (65.7%, 96.7%)	<0.0001
	Wk11 (V09)	FNA/IgG GC B cells	0/6 = 0.0% (0.0%, 39.0%) vs. 8/14 = 57.1% (32.6%, 78.6%)	0.0182
	Wk16 (V10)	PBMCs/IgG memory B cells	0/12 = 0.0% (0.0%, 24.2%) vs. 15/16 = 93.8% (71.7%, 98.9%)	<0.0001
	Any Frozen Visit		2/12 = 16.7% (4.7%, 44.8%) vs. 17/18 = 94.4% (74.2%, 99.0%)	<0.0001
	Any V05/V06/V07		2/12 = 16.7% (4.7%, 44.8%) vs. 17/18 = 94.4% (74.2%, 99.0%)	<0.0001
20µg vs. 100µg	Any V07A/V08/V09/V10		1/12 = 8.3% (1.5%, 35.4%) vs. 16/17 = 94.1% (73.0%, 99.0%)	<0.0001
	Any Visit		2/12 = 16.7% (4.7%, 44.8%) vs. 17/18 = 94.4% (74.2%, 99.0%)	<0.0001
	Wk3 (V05)	FNA/IgG GC B cells	6/16 = 37.5% (18.5%, 61.4%) vs. 10/16 = 62.5% (38.6%, 81.5%)	0.2269
	Wk4 (V06)	PBMCs/IgG memory B cells	17/18 = 94.4% (74.2%, 99.0%) vs. 17/18 = 94.4% (74.2%, 99.0%)	1.0000
	Wk8 (V07)	PBMCs/IgG memory B cells	15/18 = 83.3% (60.8%, 94.2%) vs. 16/17 = 94.1% (73.0%, 99.0%)	0.3918
	Wk9 (V07A)	Fresh PBMCs/IgD- PBs	7/18 = 38.9% (20.3%, 61.4%) vs. 10/17 = 58.8% (36.0%, 78.4%)	0.2843
	Wk10 (V08)	PBMCs/IgG memory B cells	17/17 = 100.0% (81.6%, 100.0%) vs. 15/17 = 88.2% (65.7%, 96.7%)	0.2012
	Wk11 (V09)	FNA/IgG GC B cells	3/14 = 21.4% (7.6%, 47.6%) vs. 8/14 = 57.1% (32.6%, 78.6%)	0.0640
	Wk16 (V10)	PBMCs/IgG memory B cells	16/18 = 88.9% (67.2%, 96.9%) vs. 15/16 = 93.8% (71.7%, 98.9%)	0.7107
	Any Frozen Visit		17/18 = 94.4% (74.2%, 99.0%) vs. 17/18 = 94.4% (74.2%, 99.0%)	1.0000
	Any V05/V06/V07		17/18 = 94.4% (74.2%, 99.0%) vs. 17/18 = 94.4% (74.2%, 99.0%)	1.0000
	Any V07A/V08/V09/V10		18/18 = 100.0% (82.4%, 100.0%) vs. 16/17 = 94.1% (73.0%, 99.0%)	0.3551
	Any Visit		18/18 = 100.0% (82.4%, 100.0%) vs. 17/18 = 94.4% (74.2%, 99.0%)	0.5255