

Table S1. Immune correlates. IgM and IgG immunoglobulins directed toward prostatic acid phosphatase (PAP) or PA2024 were measured at various time points.

Arm	Responder or Non-responder		week 0	week 12	week 16	week 20	week 32
Arm 1	Responder	PAP	800	1600	102400	25600	1600
Arm 1	Responder	PAP	50	409600	25600	400	3200
Arm 1	Responder	PAP	1600	3200	204800	6400	12800
Arm 1	Responder	PAP	1600	409600	25600	204800	
Arm 1	Responder	PAP	3200	102400			
Arm 1	Responder	PAP	12800	204800			
Arm 1	Non-responder	PAP	3200	12800	51200	3200	
Arm 1	Non-responder	PAP	400	204800	6400		
Arm 1	Non-responder	PAP	3200	6400	6400		
Arm 1	Non-responder	PAP	800	25600	51200		
Arm 1	Non-responder	PAP	3200	204800			
Arm 1	Non-responder	PAP	200	102400			
Arm 1	Non-responder	PAP	1600				
Arm 1	Non-responder	PAP	1600				
Arm 1	Non-responder	PAP	1600				
Arm 1	Responder	PA2024	400	12800	409600	204800	800
Arm 1	Responder	PA2024	1600	409600	409600	50	102400
Arm 1	Responder	PA2024	200	204800	102400	204800	12800
Arm 1	Responder	PA2024	400	102400	204800	25600	
Arm 1	Responder	PA2024	400	204800			
Arm 1	Responder	PA2024	3200	204800			
Arm 1	Non-responder	PA2024	400	25600	51200	3200	
Arm 1	Non-responder	PA2024	200	102400	6400		
Arm 1	Non-responder	PA2024	1600	1600	3200		
Arm 1	Non-responder	PA2024	200	12800	51200		
Arm 1	Non-responder	PA2024	800	204800			
Arm 1	Non-responder	PA2024	400	102400			
Arm 1	Non-responder	PA2024	800				
Arm 1	Non-responder	PA2024	51200				
Arm 1	Non-responder	PA2024	800				
Arm 1	Non-responder	PA2024	400				

Arm	Responder or Non-responder		week 0	week 7	week 11	week 15	week 27
Arm 2	Responder	PAP	3200	12800	25600	12800	102400
Arm 2	Responder	PAP	1600	102400	204800	51200	12800
Arm 2	Responder	PAP	6400	51200	51200	409600	
Arm 2	Responder	PAP	100		409600	51200	
Arm 2	Non-responder	PAP	1600	1600	3200	102400	
Arm 2	Non-responder	PAP	200	102400	51200	6400	
Arm 2	Non-responder	PAP	1600	102400	409600	12800	
Arm 2	Non-responder	PAP	6400	102400	50	6400	
Arm 2	Non-responder	PAP	1600	50	25600	102400	
Arm 2	Non-responder	PAP	1600	25600	25600	1600	
Arm 2	Non-responder	PAP	12800	204800	204800		
Arm 2	Non-responder	PAP	3200	204800	3200		
Arm 2	Non-responder	PAP	50	6400	409600		
Arm 2	Non-responder	PAP	1600	12800			
Arm 2	Non-responder	PAP	1600				
Arm 2	Non-responder	PAP	100				
Arm 2	Responder	PA2024	1600	25600	25600	12800	102400
Arm 2	Responder	PA2024	3200	102400	102400	51200	6400
Arm 2	Responder	PA2024	1600	51200	51200	102400	
Arm 2	Responder	PA2024	200		409600	12800	
Arm 2	Non-responder	PA2024	6400	3200	12800	12800	
Arm 2	Non-responder	PA2024	200	12800	25600	25600	
Arm 2	Non-responder	PA2024	800	102400	409600	51200	
Arm 2	Non-responder	PA2024	1600	204800	50	51200	
Arm 2	Non-responder	PA2024	1600	3200	51200	102400	
Arm 2	Non-responder	PA2024	800	102400	51200	25600	
Arm 2	Non-responder	PA2024	400	204800	204800		
Arm 2	Non-responder	PA2024	51200	409600	51200		
Arm 2	Non-responder	PA2024	200	51200	409600		
Arm 2	Non-responder	PA2024	50	102400			
Arm 2	Non-responder	PA2024	400				
Arm 2	Non-responder	PA2024	800				
Arm 2	Non-responder	PA2024	50				

Arm	Responder or Non-responder	ELISPOT	week 0	week 12	week 16	week 20
Arm 1	Responder	PAP	0	0	0	0
Arm 1	Responder	PAP	0	0	0	9.5
Arm 1	Responder	PAP	0	2	6	2
Arm 1	Responder	PAP	0	0.67		
Arm 1	Responder	PAP	0	6.67		
Arm 1	Responder	PAP	0	7.33		
Arm 1	Non-responder	PAP	19.33	0	0	7.33
Arm 1	Non-responder	PAP	0	0.67	2	0
Arm 1	Non-responder	PAP	0	10	0.33	
Arm 1	Non-responder	PAP	0	0	19	
Arm 1	Non-responder	PAP	19	0		
Arm 1	Non-responder	PAP	2	0		
Arm 1	Non-responder	PAP	0.33			
Arm 1	Non-responder	PAP	23.67			
Arm 1	Responder	PA2024	0	100.67	92	41.67
Arm 1	Responder	PA2024	0	55.33	76	357
Arm 1	Responder	PA2024	0	28	30.67	37.33
Arm 1	Responder	PA2024	0.67	8.33		
Arm 1	Responder	PA2024	0	131.33		
Arm 1	Responder	PA2024	0	191.33		
Arm 1	Non-responder	PA2024	14	69	19.67	54
Arm 1	Non-responder	PA2024	0	146.67	19	73
Arm 1	Non-responder	PA2024	0	109.67	193	
Arm 1	Non-responder	PA2024	0	13	196	
Arm 1	Non-responder	PA2024	12	47		
Arm 1	Non-responder	PA2024	1.67	1.33		
Arm 1	Non-responder	PA2024	0			
Arm 1	Non-responder	PA2024	5.33			

week 32

0

1

53.33

107

Arm	Responder or Non-responder	ELISPOT	week 0	week 7	week 11	week 15
Arm 2	Responder	PAP	0	0	0	2.67
Arm 2	Responder	PAP	2.67	0	4	1.67
Arm 2	Responder	PAP	0	0	0	0
Arm 2	Responder	PAP	22.33	3.33	0	
Arm 2	Non-responder	PAP	0	0	0.33	16
Arm 2	Non-responder	PAP	0.67	139.33	0	1.67
Arm 2	Non-responder	PAP	6.33	0	74.33	0
Arm 2	Non-responder	PAP	0.67	20.67	0.33	6.33
Arm 2	Non-responder	PAP	0	18	0.33	0
Arm 2	Non-responder	PAP	0	0	0	21.33
Arm 2	Non-responder	PAP	2	0	9.67	33.67
Arm 2	Non-responder	PAP	0	4.33	2.33	
Arm 2	Non-responder	PAP	19.33	5.67		
Arm 2	Non-responder	PAP	1	0		
Arm 2	Non-responder	PAP	0	71.33		
Arm 2	Non-responder	PAP	0	0		
Arm 2	Non-responder	PAP	0			
Arm 2	Non-responder	PAP	0			
Arm 2	Responder	PA2024	0	2	14.67	26.33
Arm 2	Responder	PA2024	0.67	3.33	27.33	18.67
Arm 2	Responder	PA2024	1	125.67	37.33	47.67
Arm 2	Responder	PA2024	87	52	12	
Arm 2	Non-responder	PA2024	0.33	74.67	10	161.33
Arm 2	Non-responder	PA2024	0	126.33	118	144.67
Arm 2	Non-responder	PA2024	1	3.67	167	9.33
Arm 2	Non-responder	PA2024	0.33	261.67	12.67	40.33
Arm 2	Non-responder	PA2024	0.33	213.67	3.67	3.67
Arm 2	Non-responder	PA2024	0	196.67	8.67	23.67
Arm 2	Non-responder	PA2024	2.67	23	19	27.33
Arm 2	Non-responder	PA2024	1.33	110.67	15.67	
Arm 2	Non-responder	PA2024	7.67	103		
Arm 2	Non-responder	PA2024	0.33	86		
Arm 2	Non-responder	PA2024	0	110		
Arm 2	Non-responder	PA2024	0	51.67		
Arm 2	Non-responder	PA2024	1.67			
Arm 2	Non-responder	PA2024	0			

week 27

0

0

8

25.67

Arm	Response	Stimulation Index	week 0	week 12	week 16	week 20
Arm 1	Responder	PAP	0.74	1.14	0.68	0.74
Arm 1	Responder	PAP	0.97	0.67	0.81	0.49
Arm 1	Responder	PAP	0.7	0.59	2.23	1.87
Arm 1	Responder	PAP	0.59	0.39		
Arm 1	Responder	PAP	1.67	0.42		
Arm 1	Responder	PAP		2.45		
Arm 1	Non-responder	PAP	1.25	0.69	0.48	1.41
Arm 1	Non-responder	PAP	0.59	0.65	0.38	
Arm 1	Non-responder	PAP	0.85	1.9	7.54	
Arm 1	Non-responder	PAP	1.65	0.43		
Arm 1	Non-responder	PAP	0.21	1.41		
Arm 1	Non-responder	PAP	1.36	0.67		
Arm 1	Non-responder	PAP	0.59			
Arm 1	Non-responder	PAP	0.73			
Arm 1	Responder	PA2024	1.04	10.28	7.16	5.29
Arm 1	Responder	PA2024	0.93	6.23	17.4	11.13
Arm 1	Responder	PA2024	1.22	16.51	56.51	58.4
Arm 1	Responder	PA2024	0.66	5.92		
Arm 1	Responder	PA2024	3.14	8.7		
Arm 1	Responder	PA2024		60.57		
Arm 1	Non-responder	PA2024	2.09	75.97	29.04	14.14
Arm 1	Non-responder	PA2024	0.9	20.12	18.08	
Arm 1	Non-responder	PA2024	1.07	16.87	56.52	
Arm 1	Non-responder	PA2024	1.88	2.8		
Arm 1	Non-responder	PA2024	0.44	55.01		
Arm 1	Non-responder	PA2024	2.77	31.09		
Arm 1	Non-responder	PA2024	0.87			
Arm 1	Non-responder	PA2024	1.1			

week 32
2.17

18.88

Arm	Response	Stimulation Index	week 0	week 7	week 11	week 15
Arm 2	Responder	PAP	1.6	1.16	1.27	2.02
Arm 2	Responder	PAP	1.07	0.97	3.75	0.66
Arm 2	Responder	PAP	0.76	0.44	1.02	0.96
Arm 2	Responder	PAP	0.95		0.48	
Arm 2	Non-responder	PAP	0.5	0.43	0.76	5.38
Arm 2	Non-responder	PAP	0.76	6.15	1.04	1.01
Arm 2	Non-responder	PAP	0.92	1.87	8.29	0.73
Arm 2	Non-responder	PAP	0.89	0.08	0.76	3.63
Arm 2	Non-responder	PAP	0.88	0.44	0.89	4.03
Arm 2	Non-responder	PAP	0.98	0.91	0.89	0.72
Arm 2	Non-responder	PAP	1.02	1.44	7.46	
Arm 2	Non-responder	PAP	1.72	2.08	1.12	
Arm 2	Non-responder	PAP	1.01	7.02	8.29	
Arm 2	Non-responder	PAP	0.9	1.18		
Arm 2	Non-responder	PAP	0.98	0.91		
Arm 2	Responder	PA2024	1.34	18.23	33.72	82.08
Arm 2	Responder	PA2024	1.48	41.62	14.62	2.12
Arm 2	Responder	PA2024	1.3	13.33	29.94	24.31
Arm 2	Responder	PA2024	1.82		9.67	
Arm 2	Non-responder	PA2024	1.77	29.65	15.25	10.62
Arm 2	Non-responder	PA2024	0.97	12.17	3.18	9.06
Arm 2	Non-responder	PA2024	0.85	24.58	22.1	19.86
Arm 2	Non-responder	PA2024	2.39	9.78	16.39	10.92
Arm 2	Non-responder	PA2024	1.33	2.54	8.27	9.46
Arm 2	Non-responder	PA2024	1.37	9	11.03	1.82
Arm 2	Non-responder	PA2024	0.88	43.37	12.43	
Arm 2	Non-responder	PA2024	1.54	8.37	3.03	
Arm 2	Non-responder	PA2024	1.18	13.29	22.1	
Arm 2	Non-responder	PA2024	0.96	3.11		
Arm 2	Non-responder	PA2024	1.3	9		

week 27

0.84

0.87

10.95

14.2