

S17 Table: The estimate parameters for the eight treated macaques using the increased antigen presentation mechanism for the three different effector cell source models. The intervals specify the range of the set of intervals to approximate the 95% confidence intervals (S1 and S3 Text).

Baseline source										
Macaque	r_T	m	p	K_B	K_P	ψ	Ω	σ	$\ln(L)$	
ROq14	0.46 (0.44–0.47)	2.52E-05 (2.14E-05–2.52E-05)	13984 (13897–14202)	1.33E-01 (1.05E-01–1.83E-01)	N/A	N/A	1.00E-08 (1.00E-08–5.38E-06)	0.85 (0.76–0.88)	-48.87	
RDa15	0.21 (0.21–0.21)	1.80E-07 (1.68E-07–1.96E-07)	6906 (6854– 6956)	3.88E-01 (3.33E-01–3.92E-01)	N/A	N/A	2.54E-01 (1.93E-01–6.57E-01)	0.60 (0.59–0.65)	-34.35	
RFa15	0.16 (0.16–0.24)	2.89E-06 (2.12E-06–2.09E-05)	9047 (8828–13246)	1.36E-01 (3.03E-02–1.41E-01)	N/A	N/A	4.61E-01 (2.14E-07–5.29E+00)	0.58 (0.55–0.83)	-34.81	
RLn12	0.32 (0.21–0.43)	6.69E-06 (1.35E-06–2.79E-05)	10367 (8199–15000)	8.21E-02 (1.05E-02–1.51E-01)	N/A	N/A	1.00E-08 (1.00E-08–5.62E+00)	0.71 (0.68–1.12)	-42.03	
RIId14	0.36 (0.31–0.55)	5.48E-07 (3.79E-08–2.49E-06)	7901 (5961– 9857)	5.54E-01 (8.97E-02–5.97E-01)	N/A	N/A	2.70E-01 (1.71E-08–2.07E+00)	1.32 (1.13–1.80)	-69.45	
ROo13	0.32 (0.31–0.32)	2.19E-07 (2.07E-07–2.38E-07)	7163 (7117– 7219)	6.23E-01 (4.82E-01–6.23E-01)	N/A	N/A	5.60E-02 (2.85E-02–6.72E-02)	0.88 (0.86–0.94)	-50.44	
RSd14	0.23 (0.20–0.27)	4.69E-07 (3.39E-07–6.76E-07)	7758 (7434– 8179)	3.02E-01 (1.97E-01–4.00E-01)	N/A	N/A	1.74E-05 (3.83E-07–3.23E-05)	0.77 (0.69–1.05)	-45.66	
ROv14	0.20 (0.20–0.31)	6.74E-08 (6.02E-08–5.37E-06)	7986 (7129–11489)	4.10E-01 (1.24E-01–4.13E-01)	N/A	N/A	1.48E-01 (8.36E-05–1.58E+02)	1.06 (1.03–1.37)	-58.35	
Saturated source										
Macaque	r_T	m	p	K_B	K_P	ψ	Ω	σ	$\ln(L)$	
ROq14	0.51 (0.36–0.54)	2.60E-05 (2.06E-05–2.82E-05)	13983 (11889–14699)	1.33E-01 (7.94E-02–2.11E-01)	1.16E-05 (1.00E-05–1.09E-02)	N/A	1.23E-02 (2.18E-05–3.88E+01)	0.88 (0.73–1.23)	-50.80	
RDa15	0.15 (0.15–0.15)	5.23E-06 (5.15E-06–5.26E-06)	8073 (8057– 8086)	9.50E-02 (9.39E-02–9.62E-02)	6.00E-02 (5.87E-02–6.05E-02)	N/A	7.72E+03 (6.76E+03–8.03E+03)	0.53 (0.52–0.53)	-32.84	
RFa15	0.16 (0.14–0.45)	8.27E-06 (1.50E-06–4.04E-05)	8760 (8208–12601)	2.95E-02 (1.71E-02–4.38E-02)	2.58E-02 (2.14E-05–1.00E-01)	N/A	2.32E-01 (1.59E-07–1.19E+00)	0.69 (0.61–1.14)	-39.74	
RLn12	0.24 (0.21–0.41)	1.52E-05 (1.24E-06–1.96E-05)	8431 (8031– 9399)	1.81E-02 (1.52E-02–1.22E-01)	1.00E-01 (1.52E-05–1.00E-01)	N/A	3.92E-04 (1.29E-05–2.94E+01)	0.67 (0.61–1.07)	-38.17	
RIId14	0.17 (0.17–0.33)	5.81E-08 (5.81E-08–1.74E-06)	9161 (7482– 9839)	1.18E-01 (5.41E-02–2.25E-01)	1.40E-05 (1.36E-05–1.16E-02)	N/A	1.50E+01 (2.26E-06–3.27E+02)	1.26 (1.03–1.63)	-66.93	
ROo13	0.32 (0.31–0.32)	2.45E-07 (2.37E-07–2.54E-07)	7152 (7117– 7169)	6.13E-01 (5.50E-01–6.13E-01)	6.00E-04 (5.90E-04–6.31E-04)	N/A	2.35E-01 (1.62E-01–2.87E-01)	0.87 (0.86–0.93)	-49.78	
RSd14	0.26 (0.26–0.27)	1.59E-06 (1.35E-06–1.68E-06)	7354 (7191– 7442)	2.46E-01 (1.96E-01–2.48E-01)	6.45E-02 (6.03E-02–6.61E-02)	N/A	8.32E+03 (3.29E+03–9.33E+03)	0.72 (0.71–0.79)	-41.67	
ROv14	0.27 (0.26–0.37)	3.72E-07 (2.71E-07–6.58E-06)	10696 (10568–10976)	3.70E-01 (3.13E-01–3.93E-01)	1.05E-05 (1.00E-05–1.40E-02)	N/A	9.56E+01 (3.72E-04–4.15E+02)	0.86 (0.72–1.15)	-53.13	
APC source										
Macaque	r_T	m	p	K_B	K_P	ψ	Ω	σ	$\ln(L)$	
ROq14	0.17 (0.17–0.17)	6.42E-08 (6.42E-08–6.76E-08)	4081 (4080– 4081)	1.03E+00 (1.03E+00–1.03E+00)	N/A	3.24E-04 (3.09E-04–3.24E-04)	1.48E+01 (1.45E+01–1.48E+01)	0.93 (0.93–0.93)	-51.40	
RDa15	0.45 (0.45–0.45)	5.62E-08 (5.62E-08–5.62E-08)	4523 (4523– 4523)	9.31E-01 (9.31E-01–9.31E-01)	N/A	7.46E-04 (7.46E-04–7.46E-04)	7.78E+00 (7.78E+00–7.78E+00)	0.57 (0.57–0.58)	-34.63	
RFa15	0.55 (0.55–0.55)	9.82E-08 (9.82E-08–1.02E-07)	4906 (4906– 4909)	4.08E-01 (4.08E-01–4.17E-01)	N/A	1.00E-03 (9.33E-04–1.00E-03)	4.00E+01 (3.27E+01–4.00E+01)	0.46 (0.46–0.47)	-25.73	
RLn12	0.39 (0.39–0.39)	7.24E-08 (6.76E-08–7.24E-08)	4541 (4535– 4541)	3.95E-01 (3.80E-01–3.95E-01)	N/A	1.00E-03 (9.33E-04–1.00E-03)	4.00E+01 (3.27E+01–4.00E+01)	0.38 (0.38–0.38)	-20.94	
RIId14	0.34 (0.34–0.34)	3.26E-08 (3.26E-08–3.26E-08)	4762 (4762– 4781)	8.49E-01 (8.49E-01–8.71E-01)	N/A	9.99E-04 (9.33E-04–9.99E-04)	1.56E+00 (1.56E+00–1.56E+00)	1.32 (1.32–1.34)	-72.24	
ROo13	0.25 (0.25–0.25)	4.70E-08 (4.70E-08–4.70E-08)	7317 (7299– 7317)	5.73E-01 (5.50E-01–5.73E-01)	N/A	4.33E-04 (4.07E-04–4.33E-04)	2.58E+00 (2.58E+00–2.58E+00)	1.03 (1.02–1.03)	-61.30	
RSd14	0.55 (0.55–0.55)	5.20E-08 (5.13E-08–5.20E-08)	5707 (5678– 5707)	2.79E-01 (2.79E-01–2.88E-01)	N/A	2.05E-05 (1.95E-05–2.05E-05)	3.97E+01 (3.97E+01–3.97E+01)	0.85 (0.83–0.85)	-48.84	
ROv14	0.50 (0.50–0.50)	5.89E-08 (5.89E-08–6.31E-08)	5916 (5907– 5916)	2.84E-01 (2.84E-01–2.88E-01)	N/A	3.86E-04 (3.86E-04–4.07E-04)	2.85E+00 (2.85E+00–2.87E+00)	1.05 (1.03–1.05)	-58.78	