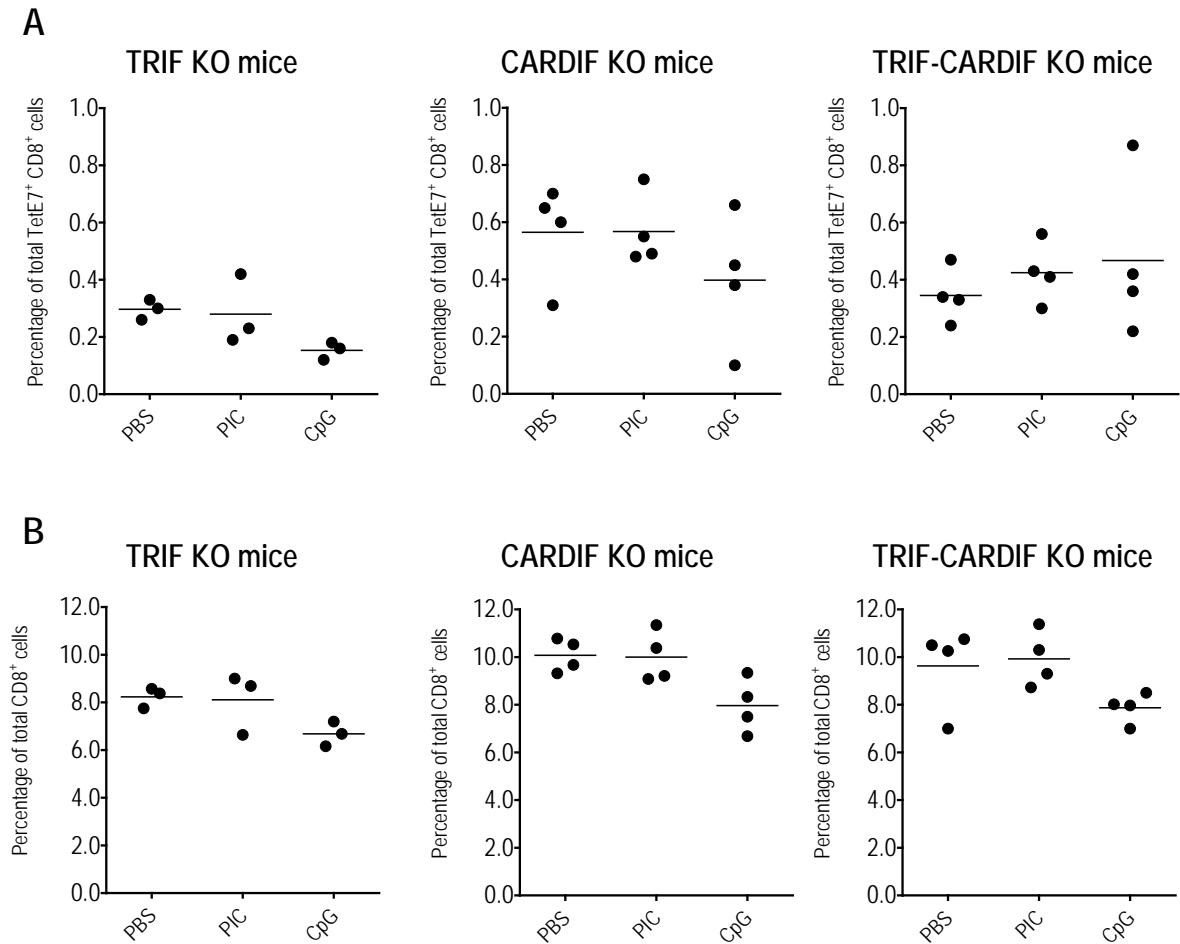


Supplementary Figure 1 (*Domingos-Pereira et al.*)



Supplementary Figure 1

E7-specific and total CD8 T cells in spleen of E7-immunized Trif KO, Cardif KO and Trif-Cardif double KO mice, instilled with ivag CpG or PIC. Groups of Trif KO (left panels), Cardif KO (middle panels) and Trif-Cardif double KO (right panels) mice were s.c. immunized with the adjuvanted E7 vaccine and 5 days later ivag instilled with PBS, PIC or CpG. Mice were sacrificed three days later and cells recovered from individual spleen were stained with CD8-APC antibodies and TetE7₄₉₋₅₇-PE or TetL1₁₆₅₋₁₇₃-PE (as control). The percentages of TetE7⁺ CD8⁺ cells (A) and total CD8⁺ (B) cells are indicated. The horizontal bars represent the mean percentages.

Supplementary Table 1 (*Domingos-Pereira et al.*)

E7-specific CD8 T cell responses in E7-vaccinated mice ivag challenged with different immunostimulants.

ivag immunostimulant	Mean ± SEM of E7-specific IFN- γ secreting cells / 10^5 cells		
	PBMC	GLN	Spleen
PBS	149.7 ± 45.2 (3) [†]	34.7 ± 6.8 (3)	53.5 ± 5.3 (3)
CpG	177.3 ± 10.4 (4)	36.5 ± 6.5 (4)	70.8 ± 8.3 (4)
PIC	270.3 ± 77.3 (4)	24.3 ± 4.1 (4)	67.3 ± 13.6 (4)

[†] The number of mice in each group is indicated in parenthesis

Supplementary Table 2

A. T cell coreceptor modulation by CpG in the genital tract (data extracted from the supplementary Table 1 in Lindqvist et al.²⁰)

T cell coreceptor	4 hours		24 hours		48 hours	
	Adjusted P value	log ₂ fold increase	Adjusted P value	Log ₂ fold increase	Adjusted P value	Log ₂ fold increase
CD4	0.06	-0.36	5.29E-05	-0.76	0.15	-0.34
CD8a	0.19	0.25	1.05E-03	0.57	2.77E-04	0.72
CD8b	0.45	0.20	4.12E-03	0.62	2.54E-02	0.56

B. Chemokine and respective receptors both significantly increased by CpG in the genital tract (data extracted from the supplementary Table 1 in Lindqvist et al.²⁰)

Chemokines and respective receptors increased by CpG	4 hours		24 hours		48 hours	
	Adjusted P value	log ₂ fold increase	Adjusted P value	Log ₂ fold increase	Adjusted P value	Log ₂ fold increase
Ccl 2	4.83E-14^a	3.31	6.73E-13	2.83	1.74E-09	2.24
Ccl 3	1.42E-06	3.62	1.28E-03	2.21	3.63E-04	2.78
Ccl 4	1.54E-11	2.45	1.73E-11	2.34	9.41E-05	1.77
Ccl 5	5.10E-10	2.68	0.054	0.63	8.29E-11	1.44
Ccl 7	8.73E-13	3.10	8.22E-14	3.36	7.40E-11	2.75
Ccl 8	0.20	0.63	1.54E-03	1.40	0.31	0.63
Ccl 12	2.28E-08	2.50	8.08E-13	3.72	1.62E-08	2.69
Ccl 19	9.97E-14	2.53	7.56E-10	1.67	0.37	0.30
Cxcl 9	4.01E-05	2.05	1.16E-12	4.59	1.50E-02	1.33
Cxcl 10	3.29E-08	4.77	9.51E-05	2.92	0.20	1.25
Cxcl 11	6.79E-11	2.49	3.42E-06	1.43	0.74	0.18
Ccr 1	3.13E-02	1.16	0.23	0.69	0.78	1.37
Ccr 2	0.70	0.18	9.06E-04	1.14	4.51E-04	1.37
Ccr 5	1.75E-03	0.94	2.87E-10	2.28	6.64E-11	2.64
Ccr 7	8.32E-09	1.28	1.71E-02	0.44	0.99	0.03
Cxcr 3	0.33	-0.29	0.96	0.02	1.63E-03	0.91

C. Adressin/selectin and respective ligand(integrin) both significantly increased by CpG in the genital tract (data extracted from the supplementary Table 1 in Lindqvist et al.²⁰)

Addressins/selectin and respective ligand induced by CpG	4 hours		24 hours		48 hours	
	Adjusted P value	log ₂ fold increase	Adjusted P value	Log ₂ fold increase	Adjusted P value	Log ₂ fold increase
Vcam	1.97E-05	1.64	0.62	0.24	0.60	0.33
Icam1	3.63E-09	1.79	4.95E-03	0.70	3.26E-02	0.63
Madcam	0.40	0.15	3.95E-03	0.44	0.83	-0.07
Glycam1	2.18E-06	1.31	2.21E-02	0.59	0.06	0.57
E selectin	4.30E-05	1.72	0.37	0.42	0.75	0.25
P selectin	2.82E-10	2.19	3.38E-02	0.59	0.24	0.43
L selectin	3.84E-03	1.72	2.78E-03	1.75	1.82E-02	1.60
ESL-1	1.35E-02	-0.41	0.88	0.04	3.94E-02	0.39
PSGL-1	0.28	0.43	0.32	0.40	4.53E-03	1.11
CD43	0.13	0.29	2.98E-03	0.53	2.26E-13	2.01
Alpha 4	0.57	0.21	0.13	0.47	4.04E-05	1.17
Alpha L	4.19E-04	1.28	1.98E-05	1.56	1.28E-06	2.05
Alpha M	1.76E-02	0.96	1.92E-07	2.25	2.92E-11	3.62
Beta 2	0.10	0.64	2.00E-07	2.10	2.52E-11	3.40
Beta 7	0.17	0.34	3.07E-04	0.83	0.08	0.49

^a significant adjusted p value and respective fold increase are indicated in bold

Supplementary Table 3 (*Domingos-Pereira et al.*)

A. CD4 and CD8 T-cells expressing the indicated chemokine receptor in spleen of E7-vaccinated mice receiving ivag PBS or CpG.

Chemokine receptor	Chemokine receptor-expressing T-cells among total T-cells (Mean % ± SEM)			
	CD4		CD8	
	PBS	CpG	PBS	CpG
CCR2	9.1 ± 0.6	14.3 ± 0.6	3.1 ± 0.4	4.0 ± 0.3
CCR5	5.7 ± 0.4	15.1 ± 0.6	4.9 ± 0.5	8.5 ± 0.9
CCR7	62.0 ± 1.3	66.3 ± 0.7	50.3 ± 0.5	47.5 ± 0.7
CXCR3	18.4 ± 0.5	14.7 ± 0.6	45.0 ± 0.8	33.4 ± 1.8

B. CD4 and CD8 T-cells expressing the indicated selectin/integrin receptor in spleen of E7-vaccinated mice receiving ivag PBS or CpG.

Selectin/Integrin receptor	Selectin/integrin-expressing T-cells among total T-cells (Mean % ± SEM)			
	CD4		CD8	
	PBS	CpG	PBS	CpG
αL	42.4 ± 3.3	56.1 ± 1.6	49.8 ± 4.5	59.8 ± 2.5
α4	23.6 ± 2.4	27.8 ± 1.5	21.2 ± 1.5	20.9 ± 1.5
α4β7	10.6 ± 1.2	15.4 ± 2.4	16.2 ± 1.7	16.4 ± 1.5
L-selectin	68.4 ± 1.2	64.1 ± 2.1	79.1 ± 4.0	73.2 ± 4.4
E-selectin	22.8 ± 1.8	60.0 ± 1.8	15.1 ± 1.0	20.7 ± 1.0
P-selectin	10.9 ± 0.8	13.5 ± 0.3	7.9 ± 0.8	10.1 ± 1.2
PSGL-1	89.0 ± 0.7	86.0 ± 2.3	97.3 ± 0.2	96.0 ± 0.1
CD43	22.3 ± 2.9	29.7 ± 0.6	21.5 ± 2.1	23.8 ± 2.1