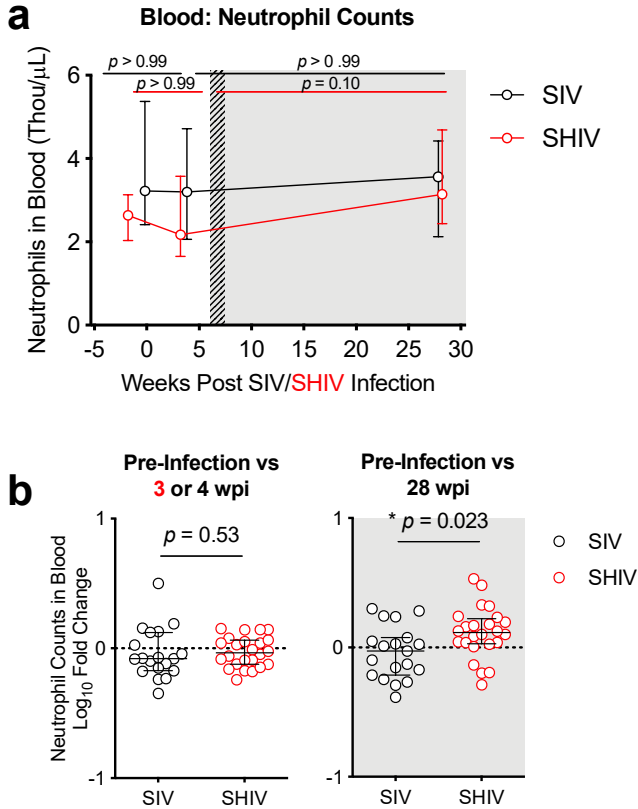


Supplemental Figure S1. Peripheral and mucosal CD4/CD8 ratios. The ratio of CD4/CD8 in the blood (a) and colon (c) were quantified by dividing the frequencies of CD3+CD4+ by CD3+CD8+ as determined by flow cytometry. (a, c) Hashed and shaded regions indicate periods of cART treatment for SIV RMs and all animals, respectively. Lines indicate medians with interquartile ranges. Kruskal-Wallis test, adjusted p-values are given. (b, d) Log₁₀-fold change in CD4 T-cells between pre-infection and acute infection at 4 (SIV) or 6 (SHIV) weeks post-infection (wpi) or after 21 (SHIV) or 22 (SIV) weeks (>5 months) on cART in the blood (b) or colon (d) between SIV (black open circles) and SHIV (red open circles). Each dot represents an individual RM with medians and interquartile ranges indicated. The dotted line indicates no change (value of 1). p-values were determined using a Mann-Whitney test, with * p-values ≤ 0.05 considered significant.



Supplemental Figure S2. Peripheral blood neutrophil counts. **(a)** The number of neutrophils per microliter of blood were quantified by complete blood count (CBC). Hashed and shaded regions indicate periods of cART treatment for SIV RMs and all animals, respectively. Lines indicate medians with interquartile ranges. Kruskal-Wallis test, adjusted p -values are given. **(b)** Log₁₀-fold change in neutrophil counts between pre-infection and acute infection at 3 (SHIV) or 4 (SIV) weeks post-infection (wpi) or after 21 (SHIV) or 22 (SIV) weeks (>5 months) on cART in the blood. Each dot represents an individual RM with medians and interquartile ranges indicated, SIV (black open circles) and SHIV (red open circles). The dotted line indicates no change (value of 1). p -values were determined using a Mann-Whitney test, with * p -values ≤ 0.05 considered significant.

Supplemental Table S1. Fold change in longitudinal immunological parameters evaluated in SIV- and SHIV-infected macaques.

	Fold change from baseline (Mean \pm Standard deviation)		<i>p</i> -value ^a
	SIVAB670 N=19	SHIV- 1157ipd3N4 N=24	SIV vs SHIV
Blood CD3+CD4+ (Cells/μL)			
3-4 wpi	0.625 \pm 0.175	1.24 \pm 0.542	< 0.0001
28 wpi	0.784 \pm 0.139	1.44 \pm 0.642	0.0001
Colon %CD4+			
6 wpi	0.289 \pm 0.152	0.643 \pm 0.340	< 0.0001
28 wpi	0.818 \pm 0.254	0.939 \pm 0.308	0.14
Blood CD4/CD8 Ratio			
4-6 wpi	0.610 \pm 0.178	1.38 \pm 1.44	0.0006
28 wpi	0.742 \pm 0.125	1.37 \pm 1.14	0.020
Colon CD4/CD8 Ratio			
6 wpi	0.174 \pm 0.128	0.482 \pm 0.398	< 0.0001
28 wpi	0.846 \pm 0.403	1.00 \pm 0.412	0.110
Blood Neutrophils (Thou/μL)			
3-4 wpi	1.02 \pm 0.605	0.971 \pm 0.261	0.010
28 wpi	1.02 \pm 0.496	1.43 \pm 0.688	0.11
Colon %Treg			
6 wpi	8.75 \pm 14.4	1.51 \pm 0.794	0.055
28 wpi	3.73 \pm 2.39	1.58 \pm 1.34	0.0027
Colon %Th17			
6 wpi	0.914 \pm 1.68	1.38 \pm 1.44	0.010
28 wpi	0.561 \pm 0.459	0.875 \pm 0.801	0.11
Colon %Treg			
6 wpi	8.75 \pm 14.4	1.51 \pm 0.794	0.055
28 wpi	3.73 \pm 2.39	1.58 \pm 1.34	0.0027
Colon Th17/Treg Ratio			
6 wpi	0.189 \pm 0.201	1.95 \pm 3.00	< 0.0001
28 wpi	0.343 \pm 0.490	0.895 \pm 1.11	0.0027
Colon Th17 Polyfunc.^b			
6 wpi	0.996 \pm 1.71	1.02 \pm 0.909	0.12
28 wpi	0.494 \pm 0.385	2.93 \pm 5.70	0.012
Colon %Ki67+/CD4+			
6 wpi	4.29 \pm 3.96	2.30 \pm 1.50	0.10
28 wpi	1.85 \pm 1.21	1.11 \pm 1.34	0.007
Colon %Ki67+/CD8+			
6 wpi	3.19 \pm 3.76	2.37 \pm 1.54	> 0.99
28 wpi	1.26 \pm 1.36	0.800 \pm 0.948	0.042

^a Mann-Whitney test was used to generate *p*-values; *p*<0.05 is considered significant and indicated by italicized text.

^b Th17 Polyfunc. (%): Polyfunctional was defined as the percentage of cells expressing 3 cytokines: IL-17 and \geq 2 cytokines (IL-22, IFN γ , TNF α , or IL-2).

Abbreviations: polyfunc. (polyfunctional)