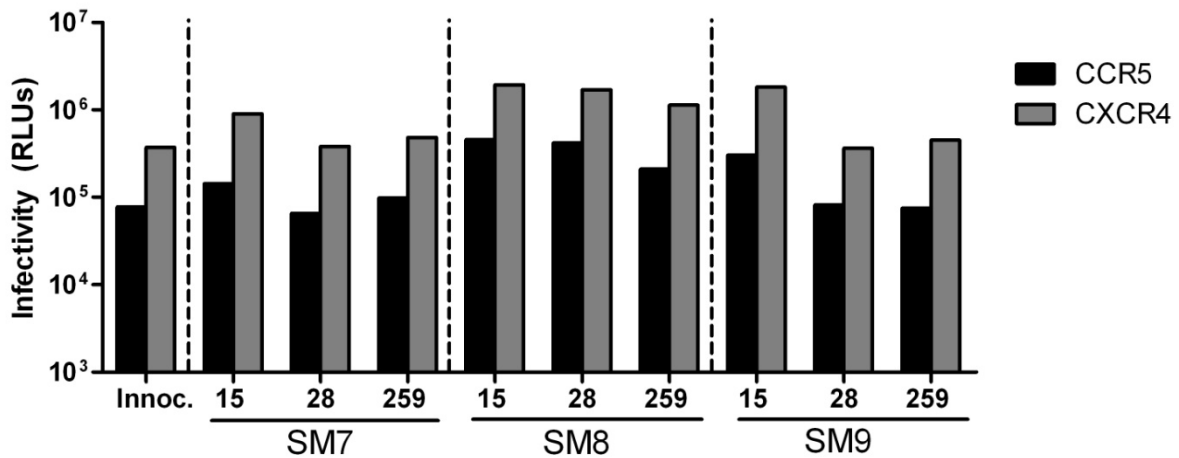


Supplementary Information

Supplementary Figure 1.

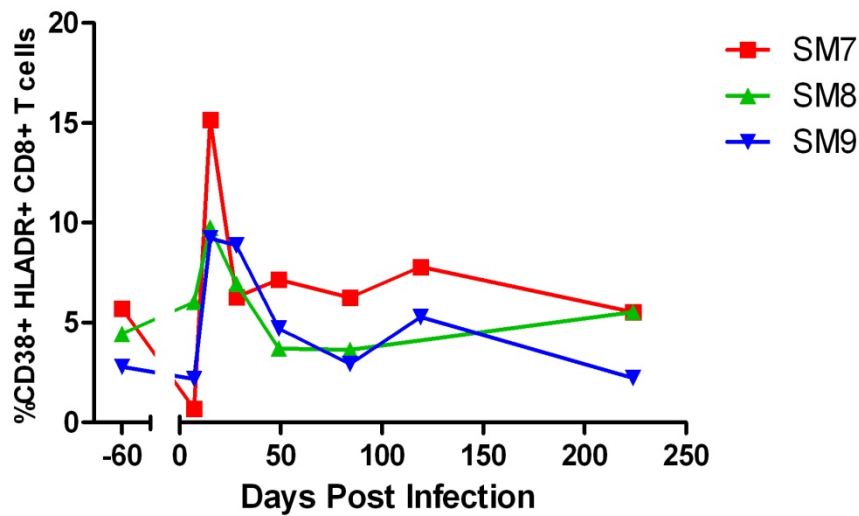


Supplementary Figure 1. SIVsmm multitropism is maintained following passage from one CD4-low SIV-infected mangabey (innoc.) to SM7, SM8, and SM9. SIVsmm tropism for the coreceptors CCR5 and CXCR4 as measured by a pseudovirus assay utilizing cloned viral *env* genes from each animal at 15, 28, and 259 days post passage.

Supplementary Table 1. Frequency of CD4⁺, CD8⁺ and double-negative (DN) T cells within the CD3⁺ T cell population.

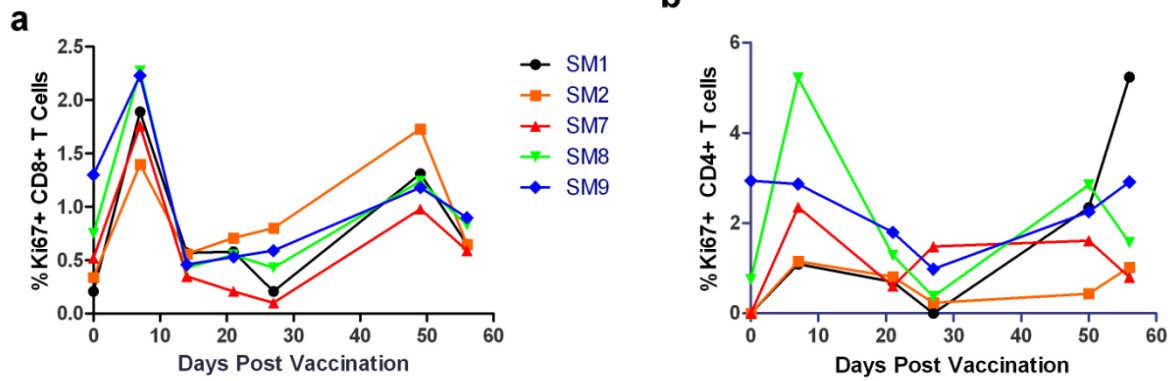
		Blood		Lymph Nodes		Bronchoalveolar Lavage		Rectal Biopsies	
		-60 dpi	180 dpi	-60 dpi	180 dpi	-60 dpi	180 dpi	-60 dpi	180 dpi
SM7	%CD4+ T cells	22	1	40	0.68	14.1	1.33	49	0.21
	%CD8+ T cells	59	76	23.1	33.7	57.8	56.1	12.8	17.3
	%DN T cells	17	21	34.2	65.1	27.3	42.5	37.5	82.4
SM8	%CD4+ T cells	23	1	45.2	0.90	13.8	0.51	53.6	0.63
	%CD8+ T cells	63	84	21.4	32.2	56.8	66.3	22	26.5
	%DN T cells	13	15	30.7	66.6	28.4	33.1	23.3	72.3
SM9	%CD4+ T cells	45	2	51.9	0.68	22	1.93	53.8	0.42
	%CD8+ T cells	41	66	20	46.9	53.8	62.6	22.3	24.7
	%DN T cells	13	31	24.8	52.2	23.5	35.4	22.7	74.4

Supplementary Figure 2.



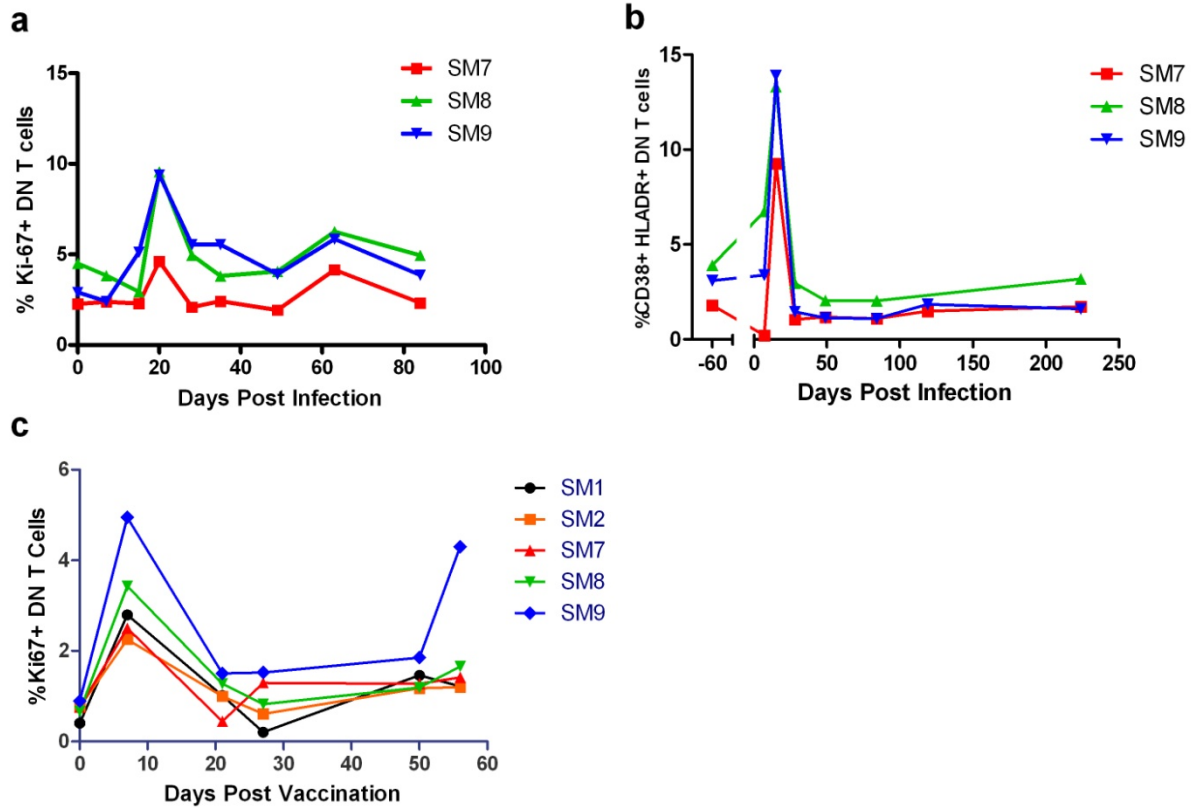
Supplementary Figure 2. CD8⁺ T cell activation following passage of multitropic SIV to SM7, SM8, and SM9. Co-expression of the activation markers CD38 and HLA-DR on CD8⁺ T cells was measured by multicolor flow cytometry in SM7, SM8, and SM9.

Supplementary Figure 3.



Supplementary Figure 3. Influenza vaccination results in transient increases in T cell proliferation in five SIV-infected CD4-low sooty mangabeys. **(a, b)** Proliferation of CD4⁺ T cells **(a)** or CD8⁺ T cells **(b)** as measured by Ki-67 expression following the first influenza vaccination in SM1, SM2, SM7, SM8, and SM9.

Supplementary Figure 4.



Supplementary Figure 4. Transient proliferation of DN T cells following SIV infection and influenza vaccination. **(a)** Proliferation of DN T cells as measured by Ki67 expression following SIV infection in SM7, SM8, and SM9. **(b)** Activation of peripheral blood DN T cells as measured by the co-expression of CD38 and HLA-DR following SIV infection in SM7, SM8, and SM9. **(c)** DN T cell proliferation following influenza vaccination in SM1, SM2, SM7, SM8, and SM9.