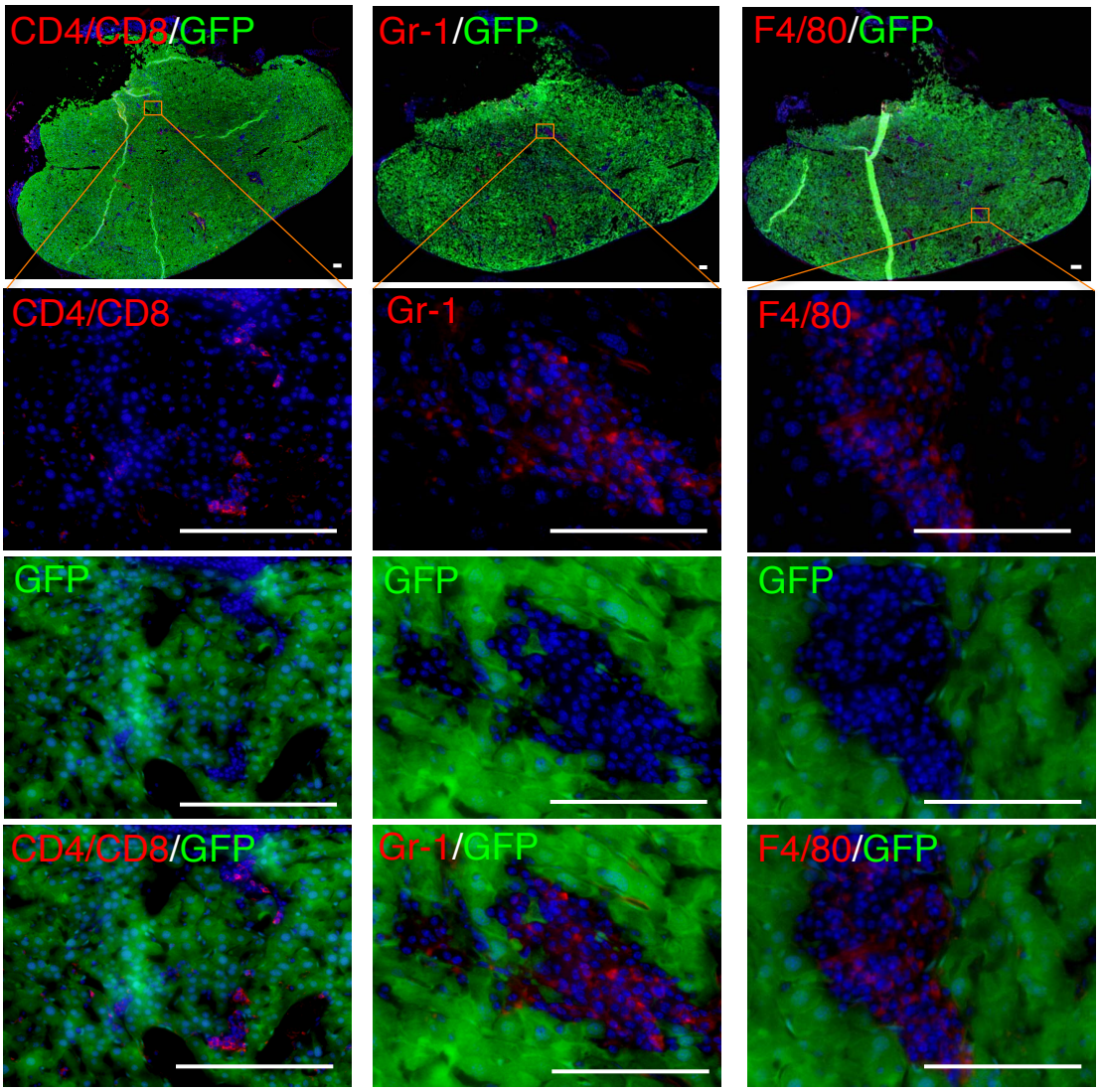
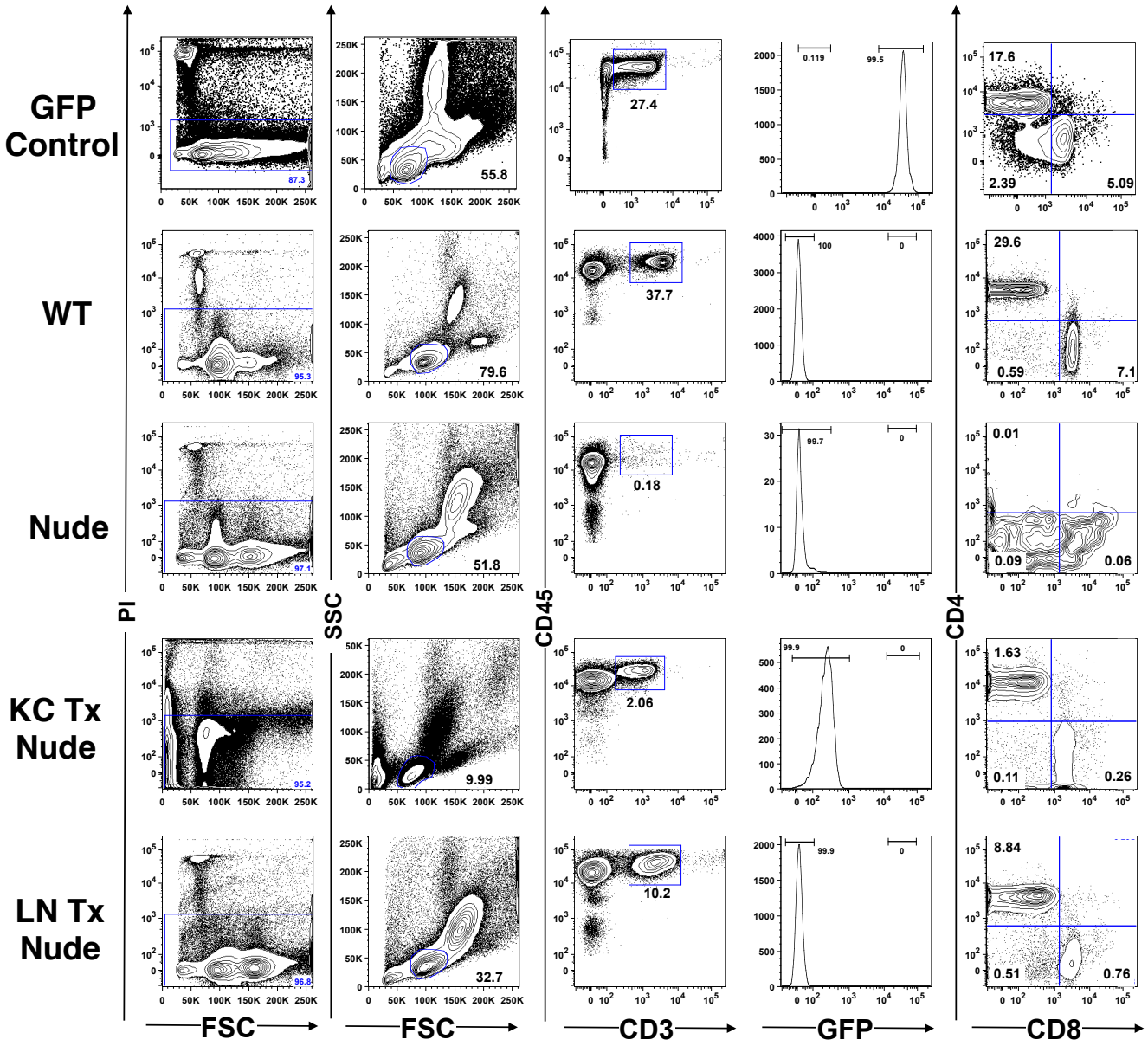


Supplementary Figure 1. Distribution of immune cells in the hepatized jejunal LN of a rescued C57BL/6 Fah$^{-/-}$ mice at 12 weeks after transplantation. Left to right panels, immunostaining of frozen LN serial sections with mAbs (red) against CD4/CD8 (CD4 and CD8 T cells), Gr-1 (granulocytes) and F4/80 (macrophages) with the presence of C57BL/6 GFP^{+} hepatocytes (green). All sections were counterstained with Hoechst 33342 (blue). Scale bar: 100mm.

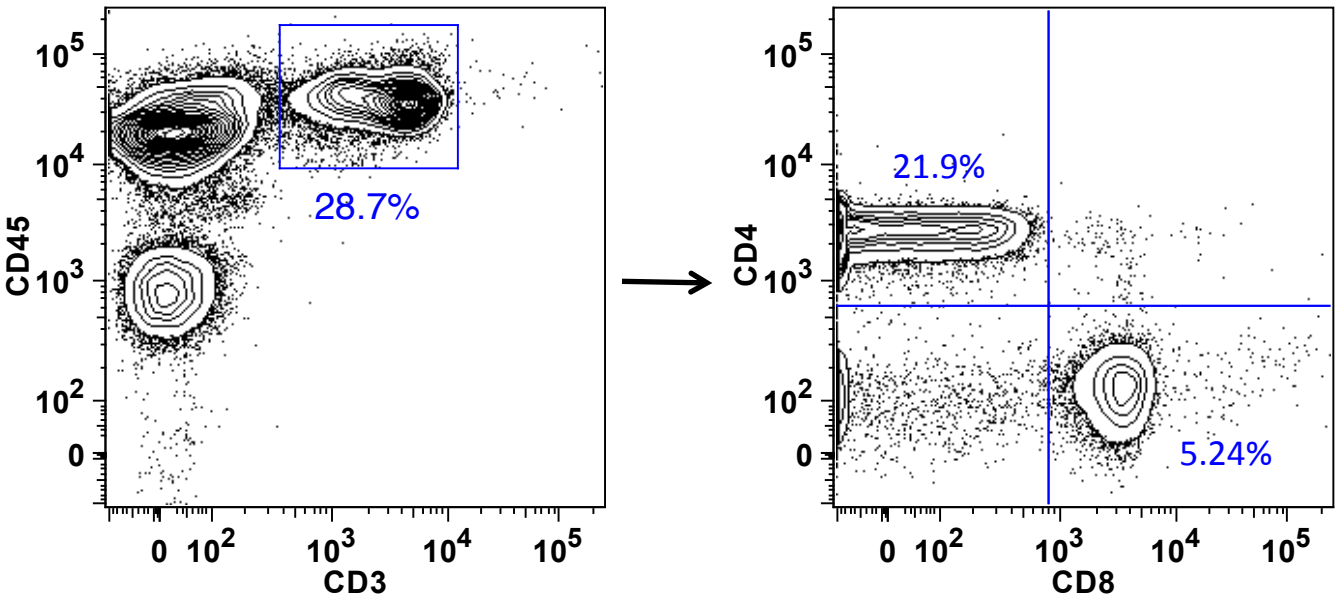


Supplementary Figure 2. Representative flow cytometry analysis of peripheral blood T cells**.** Analysis of CD4 and CD8 T cells from C57BL/6 GFP^{+} mice, wild type C57BL/6, BALB/c Nude, kidney capsule (KC) transplanted (Tx) BALB/c Nude, and lymph node (LN) transplanted BALB/c Nude mice. The number values assigned to the gates and quadrants represent the percentage of total live cells within that gate or quadrant. All contour plots display 10% probability contours.

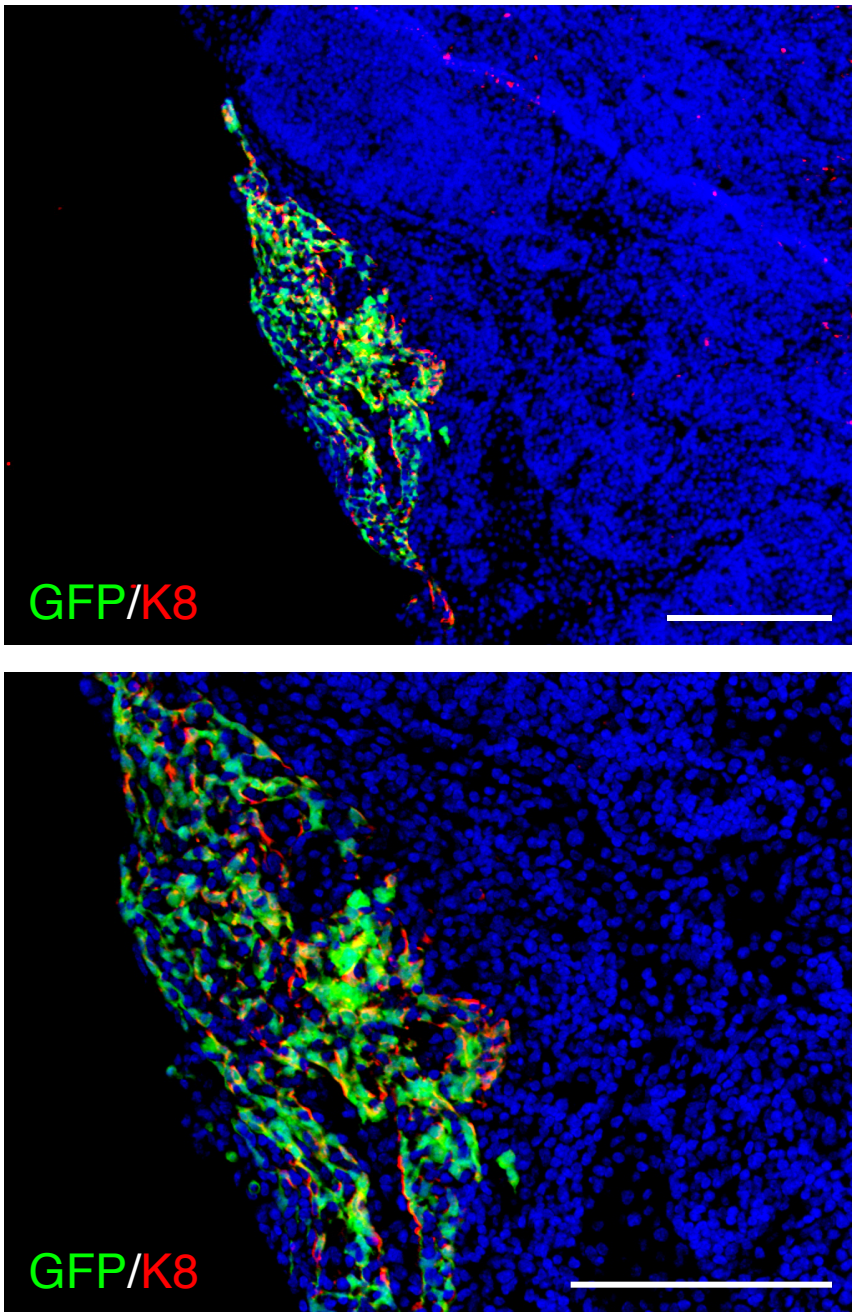
a

	CD4 T Cells	CD8 T Cells
L083	7.06	5.2
L084	21.9	5.24
L085	18.3	4.79

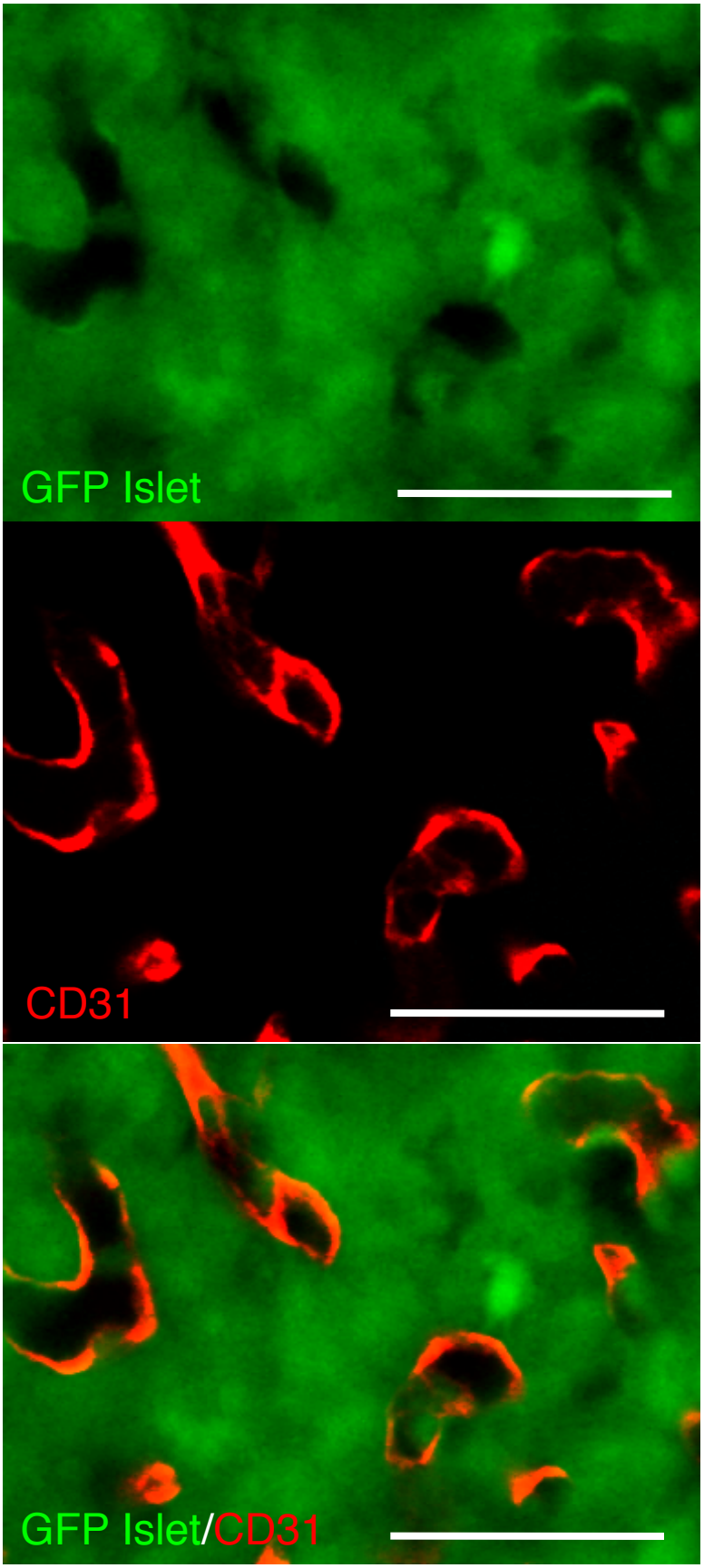
b



Supplementary Figure 3. Presence of peripheral T cells 10 months after C57BL/6 GFP^{+} thymic transplantation in BALB/c Nude LN. (**a**) Blood analysis of 3 mice; the number values assigned represent the percentage of total live CD4 and CD8 T cells. (**b**) Flow cytometric analysis of mouse L084. The number values assigned to the gates and quadrants represent the percentage of total live cells within that gate or quadrant. All contour plots display 10% probability contours.



Supplementary Figure 4. C57BL/6 GFP$^+$ thymic tissue engrafts in the subcapsular space of the jejunal BALB/c Nude LN. Frozen section of an ectopic thymus with GFP$^+$ donor thymic cells and stained with cytokeratin 8 (K8) in red. Hoechst counterstain is shown in blue. Scale bar: 100mm.



Supplementary Figure 5. Engrafted C57BL/6 GFP$^+$ islet vasculature is derived from the recipient C57BL/6 mouse 6 weeks after transplantation. Immunostaining against CD31 (red) does not co-stain with the GFP$^+$ donor derived islets (green). Scale bar: 50mm.

		CD4 T Cells	CD8 T Cells
	C57Bl/6	18.9	3.48
	L039	2.97	0.28
	L040	1.21	0.48
	L041	0.25	0.14
	L042	5.62	4.40
	L043	0.15	0.30
Ep-Cam Enriched	**L044**	0.01	0.22
Ep-Cam Enriched	**L045**	0.05	0.17
Ep-Cam Enriched	**L046**	0.06	0.16

Supplementary Table 1. Presence of peripheral T cells after transplant of C57BL/6 GFP^+ thymic cell suspension in the jejunal lymph node of a BALB/c Nude mouse. Flow cytometric analysis of peripheral blood T cells and gating strategy was used as described previously. Samples L039-L043 received LN transplants of $6x10^6$ thymic cells prepared from a digestion of neonate thymus with 0.25% Collagenase Type IV. Samples L044-L046 received LN transplants of $1x10^5$ thymic cells that were enriched for EpCAM using a MACS cell separation column (Miltenyi Biotech).