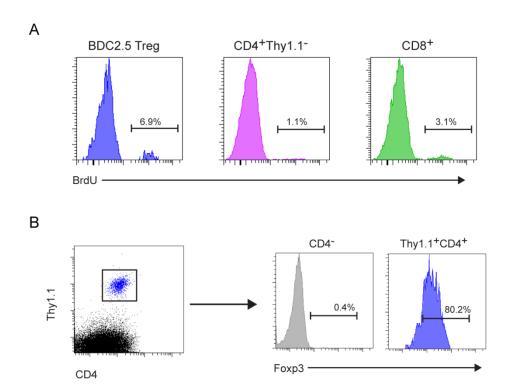
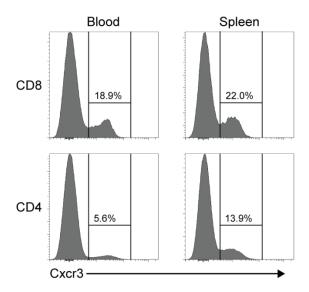
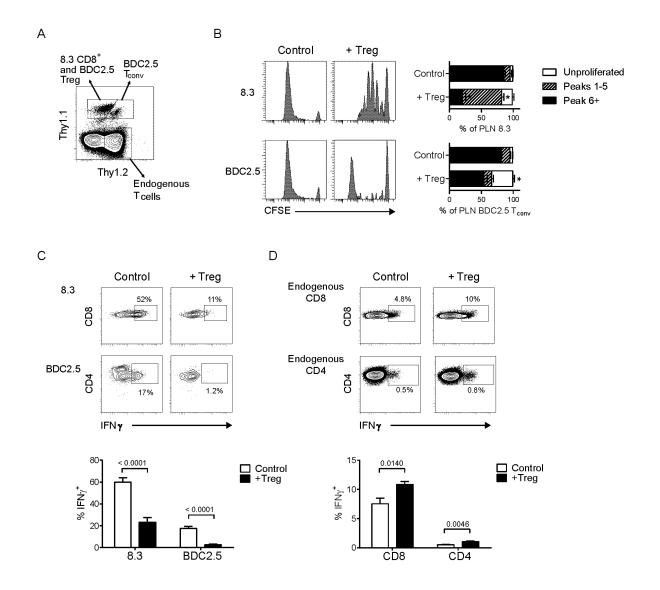
Supplemental Data



Supplemental Figure 1. (**A**) BDC2.5 Tregs proliferate in the islets. 2 weeks post-Treg transfer, a NOD.CD28^{-/-} mouse was i.p. injected with 2.5 mg BrdU 4 hours prior to sacrifice. Islet cell populations were distinguished as in **Fig. 1B** and assessed for BrdU incorporation by flow cytometry. (**B**) BDC2.5 Tregs maintain high levels of Foxp3 in the islets. 2 weeks post-transfer, CD4⁺Thy1.1⁺ BDC2.5 Tregs in the islets of a NOD.CD28^{-/-} mouse were analyzed for Foxp3 expression. Foxp3⁺ gate was set using CD4⁻ islet cells as the negative peak.



Supplemental Figure 2. Peripheral CD8⁺ T cells in NOD mice express Cxcr3. Blood cells and splenocytes from 16 week-old female NOD mice were analyzed by flow cytometry. CD4⁺ and CD8⁺ T cells were pre-gated as CD45⁺DAPI B220 CD11c⁻.



Supplemental Figure 3. BDC2.5 Tregs suppress proliferation and priming of new effector T cells in the draining PLN. (A-D) 10⁶ CFSE-labeled 8.3.Thy1.1⁺ CD8⁺ T cells and BDC2.5.Thy1.1⁺Thy1.2⁺ CD4⁺CD25⁻ T cells were transferred to NOD.CD28^{-/-} mice 3 d following BDC2.5.Thy1.1⁺ Treg treatment or to untreated littermates and analyzed 4 d later. (A) Representative flow plot depicting gating of endogenous and transferred T cells. Cells were pregated as CD45⁺ lymphocytes. Transferred 8.3 CD8⁺ T cells and BDC2.5 Tregs were gated as Thy1.1⁺Thy1.2⁻ and were further differentiated based on CD8 and CD4 expression. BDC2.5 conventional CD4⁺ T cells were Thy1.1⁺Thy1.2⁺. Endogenous T cells were Thy1.2⁺Thy1.1⁻.

(B) Representative histograms pre-gated on Thy1.1 $^+$ CD8 $^+$ 8.3 T cells and Thy1.1 $^+$ Thy1.2 $^+$ CD4 $^+$ BDC2.5 T cells depicting CFSE dilution of transferred cells in the PLN with and without Treg treatment. Bar graphs depict the percentage of cells that did not divide (Unproliferated), underwent 1-5 rounds of division (Peaks 1-5), or underwent 6 or more rounds of division (Peak 6+). Kruskal-Wallis test followed by Dunn's post test, *, P < 0.05. (C and D) PLN cells were restimulated *in vitro* with PMA and ionomycin in the presence of Brefeldin A for 2-3 hours prior to intracellular staining for IFN γ . (C) Representative flow plots pre-gated on 8.3 CD8 $^+$ (top) and BDC2.5 T_{conv} (bottom) cells showing IFN γ expression by intracellular flow cytometry. Bar graph depicts summary data from 6 mice per group from 2 independent experiments. (D) Representative flow plots pre-gated on endogenous islet Thy1.2 $^+$ Thy1.1 $^-$ CD8 $^+$ (top) and CD4 $^+$ (bottom) T cells and quantification of the percent expressing intracellular IFN γ $^+$. Bar graph depicts summary data as in C. Bar graphs depict mean \pm SEM. P values for C and D were determined by Mann-Whitney test.

Supplemental Table 1. Fold-regulation in Treg-treated versus age-matched controls Cana Day 3 nost-Treg Day 7 nost-Treg Day 7 nost-Treg Day 7 nost-Treg

Gene	Day 3 post-Treg	Day 7 post-Treg
Actb	-1.2	-1.1
Ccl1	-1.1	-1.5
Ccl11	1.2	1.2
Ccl12	-1.4	-1.7
Ccl19	-1.4	-2.3
Ccl2	-1.2	1.5
Ccl20	-1.3	-1.2
Ccl25	-1.5	1.2
Ccl3	-1.4	1.5
Ccl4	-1.1	1.7
Ccl5	-2.0	-2.1
Ccl7	-1.1	1.6
Ccl8	-2.1	-4.3
Ccl9	-1.9	-1.6
Ccr1	-1.7	-1.5
Ccr10	-1.1	1.1
Ccr2	-1.5	-1.9
Ccr3	-2.0	-1.8
Ccr4	-1.1	-1.2
Ccr5	-1.9	-2.1
Ccr6	-1.4	-1.6
Ccr7	1.2	-1.0
Ccr8	1.0	-1.4
Ccr9	-2.6	-1.9
Ccrl2	-1.2	-1.2
Cd3e	-1.3	-2.7
Cd4	-1.4	-2.2
Cd40	-1.9	-1.7
Cd40lg	-1.0	-3.1
Cd68	-1.3	-1.7
Cd80	-1.4	1.4
Cd86	-1.5	-1.2
Cd8a	-2.6	-5.3
Csflr	-1.5	-1.5
Cx3cl1	1.0	1.6
Cx3cr1	-1.3	-2.0
Cxcl1	1.5	1.9
Cxcl10	-1.9	1.0
Cxcl11	-1.6	1.0
Cxcl12	-1.1	1.2
Cxcl13	-2.4	-2.9
Cxcl16	-1.7	-1.8
Cxcl2	-1.1	-1.0
Cxcl9	-2.0	-3.7
Cxcr3	-1.4	-4.4
Cxcr4	-1.2	-2.1

Gene	Day 3 post-Treg	Day 7 post-Treg	
Cxcr5	-1.5	-1.3	
Cxcr6	-2.1	-2.9	
Foxp3	1.1	-1.5	
Gapdh	1.1	-1.0	
Gzma	-4.7	-7.8	
Gzmb	-6.1	-8.5	
Hprt1	1.0	1.1	
Hsp90ab1	1.1	1.0	
Icam1	-1.4	1.1	
Icos	-1.5	-1.9	
Ifng	-2.0	-3.5	
Igsf6	-1.5	-1.7	
Il10	-1.0	3.1	
Il12b	-1.2	1.5	
Il15	-1.4	-1.0	
Il16	-1.8	-2.7	
Il-17F	-1.2	1.8	
Il1a	-1.1	2.1	
Il1b	-1.0	1.0	
Il1r1	1.5	1.9	
Il1r2	1.2	1.3	
Il1rn	-1.7	1.0	
Il27ra	-1.5	-2.2	
Il6	-1.5	3.3	
Ins1	1.1	1.9	
Ins2	1.3	2.1	
Itgax	-1.5	-1.4	
Itgb2	-1.7	-2.6	
Klrd1	-2.0	-4.5	
Lta	-1.2	-2.6	
Ltb	-1.5	-2.8	
Ly6c1	-1.2	-1.5	
Madcam1	1.0	-1.4	
Ppbp	-1.2	1.6	
Ptprc	-1.8	-2.0	
Reg3a	-1.6	-2.1	
Reg3b	-2.2	-3.8	
Reg3g	-1.7	-1.5	
Tnf	-1.0	1.3	
Tnfrsf4	-1.3	-2.1	
Tnfsf4	-2.1	1.1	
Vcam1	-1.7	-1.4	
Xcl1	-1.9	-3.7	
Xcr1	-1.6	-1.4	
	Genes downregulated by Tregs > 3-fold in bold .		

Genes downregulated by Tregs > 3-fold in **bold**. Genes upregulated by Tregs > 3-fold in *italics*.