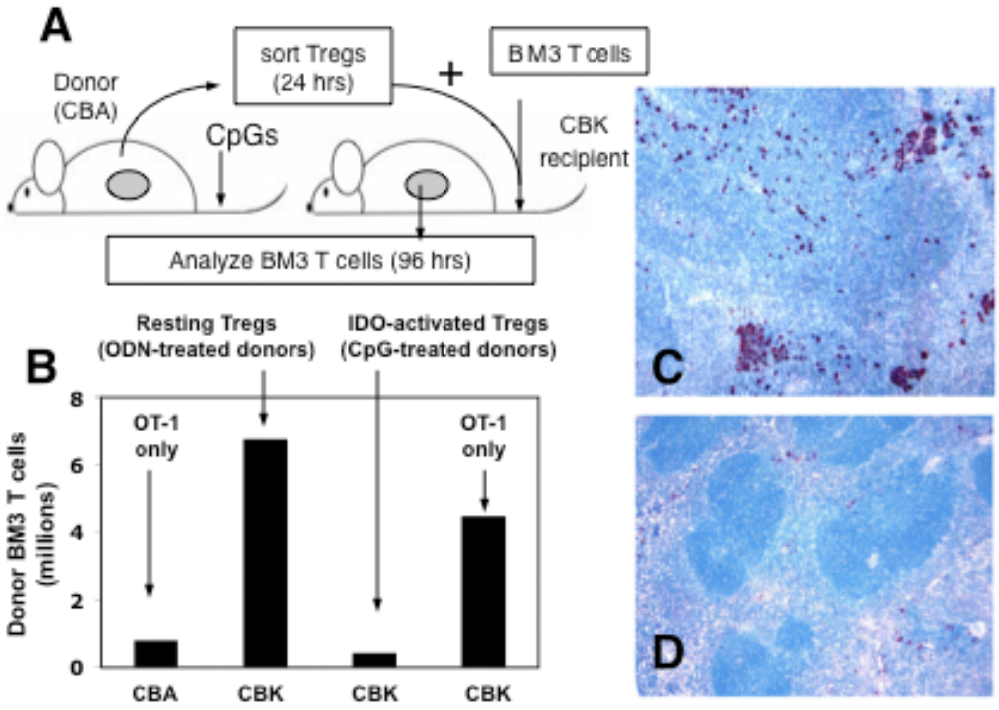
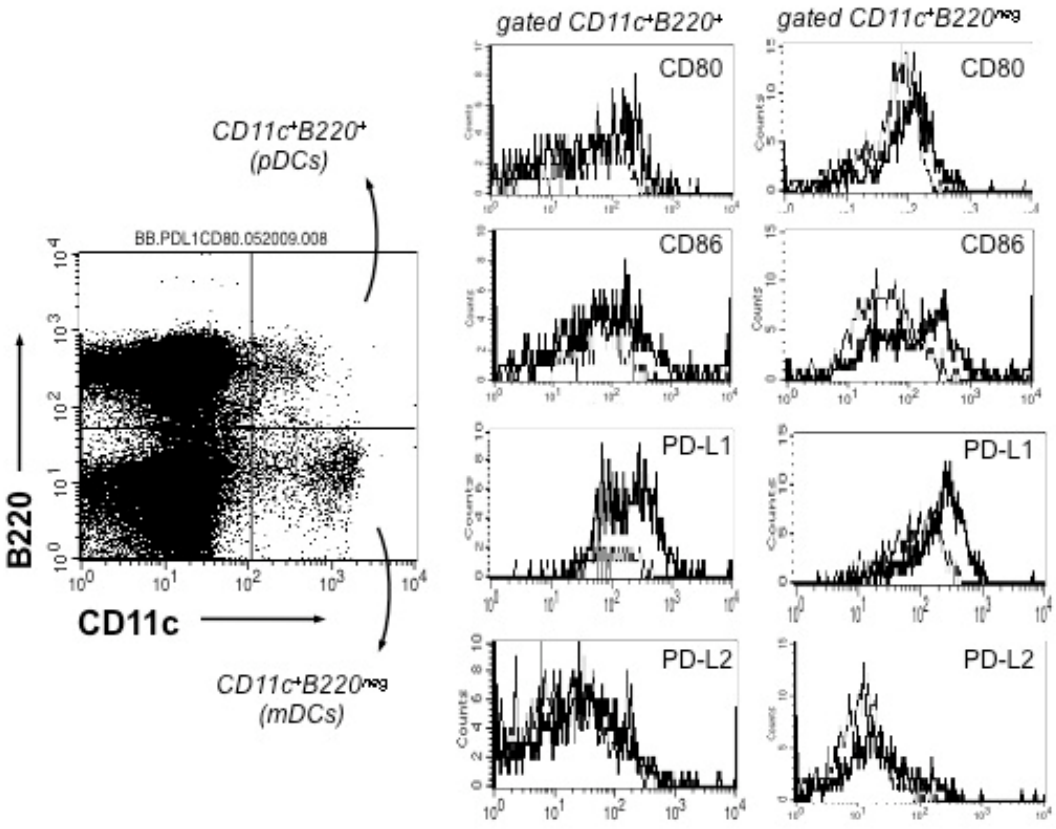
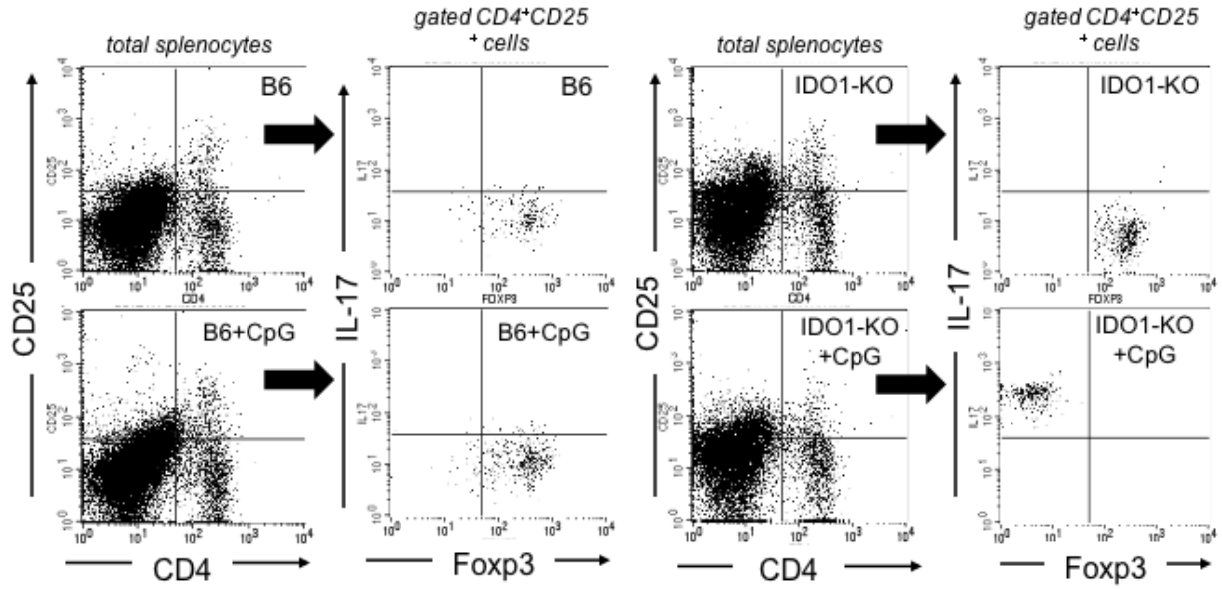
Supplemental Figures and Figure Legends



Supplemental Figure S1. IDO-activated Tregs prevent clonal expansion and pathology caused by allo-reactive T cells. A. Sorted Tregs from CpG-treated and control ODN-treated donors were mixed with H-2K^b-specific BM3 T cells and co-transferred into H-2K^b-expressing CBK or CBA (antigen-negative) recipients. After 96 hours spleens were subjected to flow cytometric (**B**) and immunohistologic (**C, D**) analyses to detect donor BM3 cells (using Ti98 anti-clonotypic mAb). **B.** Data show absolute numbers of BM3 T cells present in spleen (mean of 2/group). Images (original magnifications x200) show spleen sections from mice receiving BM3 T cells, and Tregs from ODN-treated **(C)** and CpG-treated **(D)** donors.



Supplementary Figure 2. Effect of CpG treatment on expression of CD80/86 and PD-L1/2 by splenic DCs. B6 mice were treated with CpGs for 24 hours (100µg, i/v) and gated $CD11c^{+}B220^{+}$ and $CD11c^{+}B220^{neg}$ cells containing pDCs and mDCs respectively (dot plot), were analyzed to detect expression of CD80/86 and PD-L1/2 as indicated in the histograms (thick lines). DCs from untreated mice analyzed in parallel (thin lines) shown on each histogram revealed that levels of CD80 and PD-L2 were unaffected by CpG treatment, and levels of CD86 and PD-L1 expressed by DCs increased slightly following CpG treatment.



Supplementary Figure 3. CpG treatment induces IDO-dependent maintenance of Foxp3 expression and inhibition of IL-17 expression by splenic $CD4^+CD25^+$ Tregs. B6 and IDO1-KO mice were treated with CpGs for 24 hours (100µg, i/v) and splenocytes were analyzed by flow cytometry to detect $CD4^+CD25^+$ cells and analyze IL-17 and Foxp3 expression by gated $CD4^+CD25^+$ cells as indicated. Proportions of $CD4^+CD25^+$ cells amongst total $CD4^+$ T cells were within the range 8-9% for all samples, and >90% of gated $CD4^+CD25^+$ cells expressed Foxp3, except when $CD4^+CD25^+$ cells originated from CpG-treated IDO1-KO mice (lower right); in these samples >95% of $CD4^+CD25^+$ cells did not express Foxp3.