Supporting Information

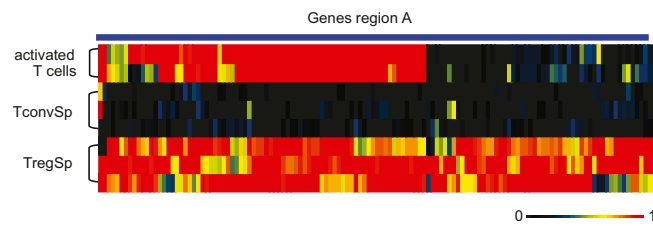## Feuerer et al. 10.1073/pnas.1002006107

Fig. S1. "SignatureMatch" analysis of genes highlighted as region A in Fig. 1*A*. Raw expression values were normalized to 1 or 0 for spleen Treg and spleen Tconv, respectively, and displayed as a heat map where red represents the expression value of a gene at the same or a greater level than what was found for spleen Treg, whereas black represents the expression value of a gene that is at the same or a lower level than that of spleen Tconv. Reference groups were compared to in vitro activated CD4 T cells (1).

1. Hill JA, et al. (2007) Foxp3 transcription-factor-dependent and -independent regulation of the regulatory T cell transcriptional signature. *Immunity* 27:786–800.

Activation signature

Fig. S2. Fold-change–fold-change plot. Shown are genes of the activation signature (1) (red, over-expressed; blue, underrepresented). Ratios of spleen Treg vs. Tconv were plotted against the ratios of CD103⁻KLRG1⁻Fopx3⁺ (*Top*), CD103⁺KLRG1⁺Fopx3⁺ (*Middle*), and homeostatically converted cells (*Bottom*), all three divided by spleen Tconv.

1. Hill JA, et al. (2007) Foxp3 transcription-factor-dependent and -independent regulation of the regulatory T cell transcriptional signature. *Immunity* 27:786–800.

Fig. S3. Homeostatic conversion cannot be blocked by anti-TGFβ. Foxp3-GFP negative T cells (CD4$^+$CD8a$^-$B220$^-$CD11b/c$^-$) were sorted from BDC2.5/NOD. Thy1.1.Foxp3-GFP mice and transferred i.v. (1 × 10^5 cells/mouse) to NOD.RAG1$^{0/0}$ recipients. TGFβ was blocked by injecting 1 mg anti-TGFβ (1D11) antibody every second day until day 12. Cell were analyzed on day 14 from different organs. The TGFβ signature (from Fig. 4A) is not biased in homeostatically converted cells (*Right*).

Fig. S4. Effects of anti-TGF treatment on host cells in OT-II transfer experiments. (*A*) The expression of Foxp3 and CD103 was monitored in CD4$^+$, CD45.1$^+$, and CD45.2$^-$ host spleen cells treated with anti-TGF blocking antibody or PBS only. Summary data for several experiments are shown on the *Right* and statistics were calculated by *t* test.

Other Supporting Information Files

Table S1 (DOC)
Table S2 (DOC)