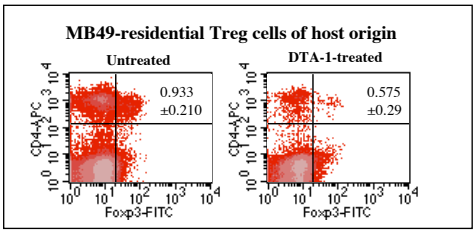
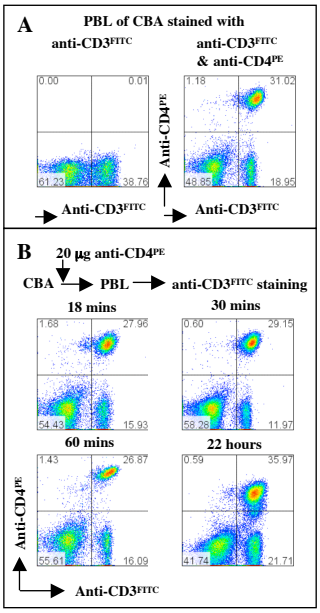
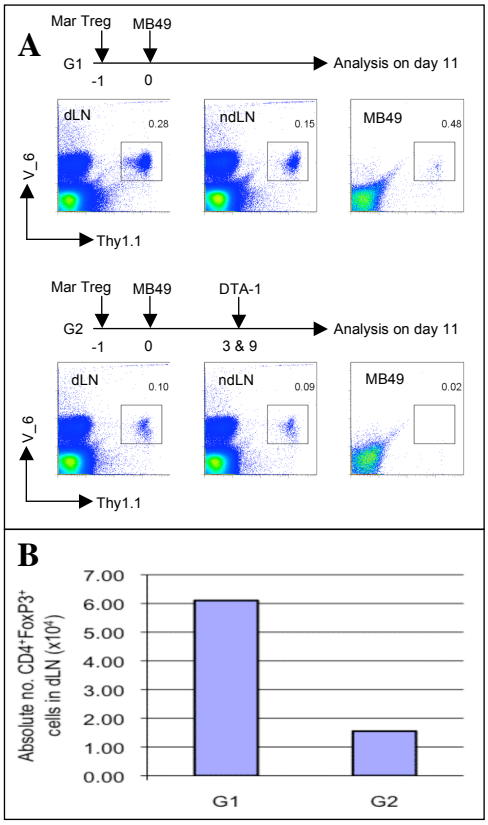
S-Fig.1



S-Fig.2



S-Fig.3



Legends for supplementary figures

S-Figure 1. DTA-1 treatment also reduces the percentage of tumour-infiltrated Treg cells of host origin.

This experiment was conduced as described in Fig.3C. On day 11, MB49 tumours from individual mice in untreated (G2) and DTA-1-treated group (G4) were stained with anti-Vβ6^{PE}, anti-Thy1.1^{PerCP} and anti-CD4^{APC} followed by intracellular staining of anti-Foxp3^{FITC}. Percentage of tumour-infiltrated Treg cells of host origin (Foxp3^{+}Thy1.1^{-}CD4^{+}) of individual mice in each group is shown as mean ±SEM. One of representative of two independent experiments is shown.

S-Figure 2. Binding to CD4 T cells by injected PE-conjugated anti-CD4 mAb.

A. The PBL from a group of CBA mice (n=3) were stained with anti-CD3^{FITC} alone or together with anti-CD4^{PE}. The dot-plots show CD3 versus CD4 expression. FACS profile from one representative of three mice is shown.

B. A group of CBA mice (n=4) were i.v. injected with 20 μg of anti-CD4^{PE}. 18, 30, 60 mintues or 22 hours later, the PBL were taken from individual mice and stained with anti-CD3^{FITC} only. The dot-plots show CD3 versus CD4 expression. FACS profile from one representative of four mice is shown. This experiment was repeated for three times and similar results were obtained.

S-Figure 3. Accumulation of adoptively transferred HY-specific Treg cells in MB49 tumours is profoundly impaired following DTA-1 treatment.

A. CD4^{+}CD25^{+} cells purified from Rag$^{+/-}$ Marilyn Thy1.1 mice were adoptively transferred to two groups of Thy1.2^{+} B6 females by i.v. injection (2.6x10^{6}/mouse). On the same day, the mice in G1 and G2 were inoculated s.c. with MB49 cells

($5x10^5$/mouse). On day 3 and 8, the mice in G2 were treated with 50 μg of DTA-1 by i.p. injection, and On day 11, dLN, ndLN and MB49 tumours from individual mice in each group were stained with anti-$V\beta6^{PE}$, anti-$Thy1.1^{PerCP}$ and anti-$CD4^{APC}$ followed by intracellular staining of anti-$Foxp3^{FITC}$. Percentage of donor cells ($Thy1.1^+V\beta6^+$) of one representative mouse from each group is shown.

B. The absolute numbers of donor Treg cells in dLN of G1 and G2 were calculated by total cell number x % of gated lymphocytes x % of donor cells. One representative mouse from each group is shown.