Supporting Information

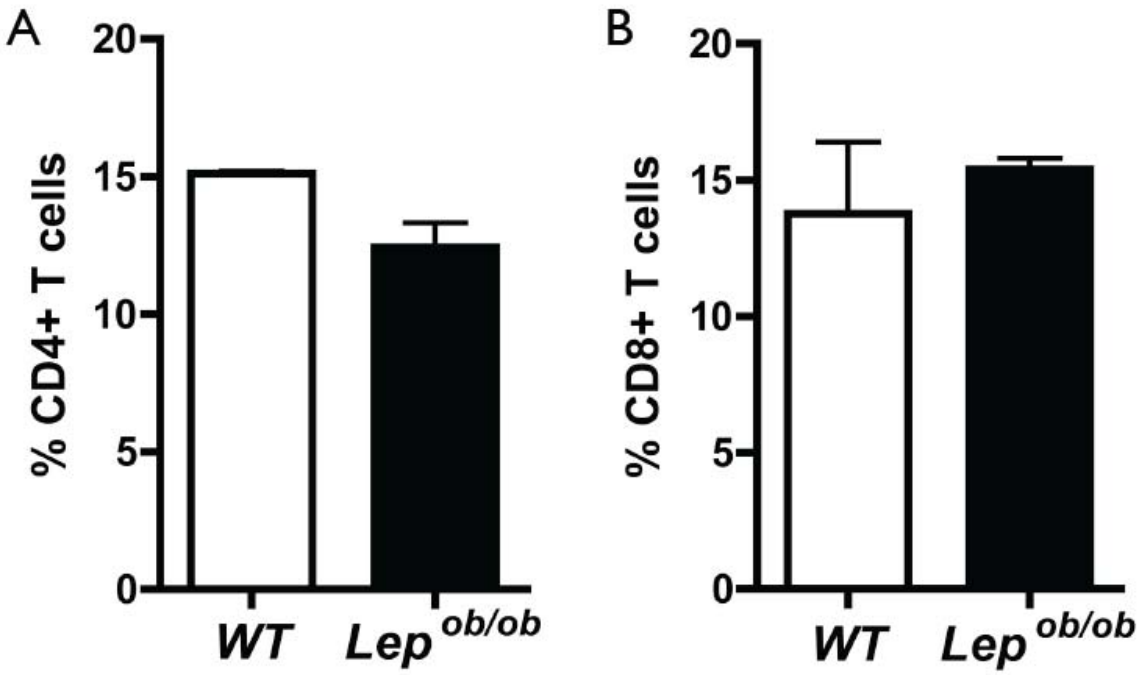

Figure S1: Frequency of lymph node CD4$^+$ and CD8$^+$ T cells in the lymph nodes of nonmanipulated B6 Lep$^{ob/ob}$ and control mice. The cells from the draining lymph nodes were obtained, stained with anti-CD4 (A) and anti-CD8 (B) monoclonal antibodies and analyzed by flow cytometry (n = 5 mice/group). Data are representative of two independent experiments. The results are shown as the mean ± SEM. No statistical differences were observed among the groups.

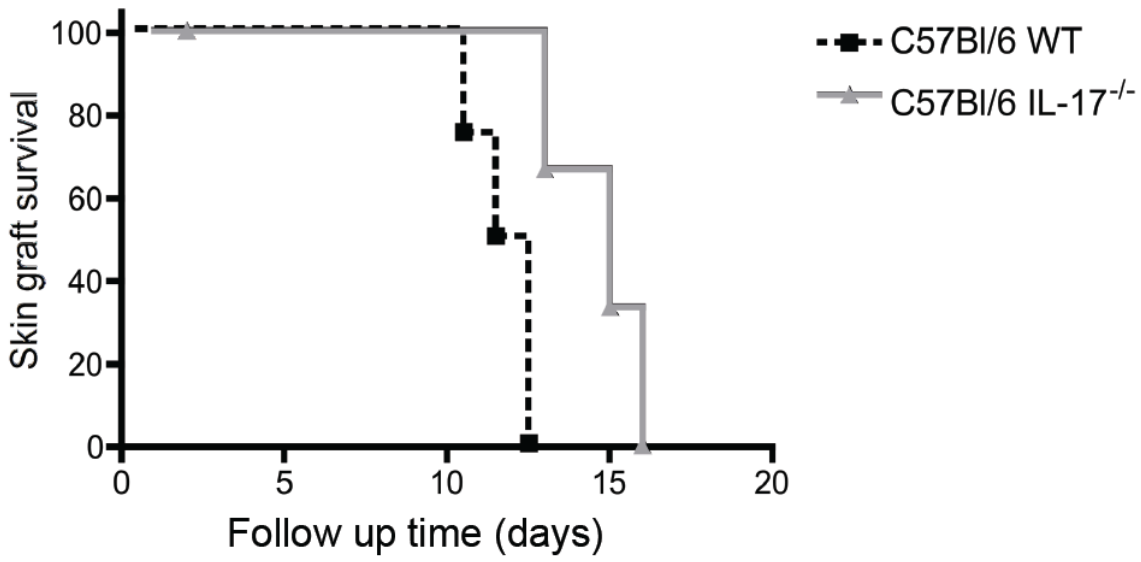

Figure S2: IL-17 does not influence fully mismatched skin allograft survival.CBA skin was transplanted onto normal or IL-17 KO B6 mice. Signs of allograft rejection were monitored daily, and survival is reported for individual animals as the time of graft rejection (n = 4 animals/group). The data are representative of two independent experiments.

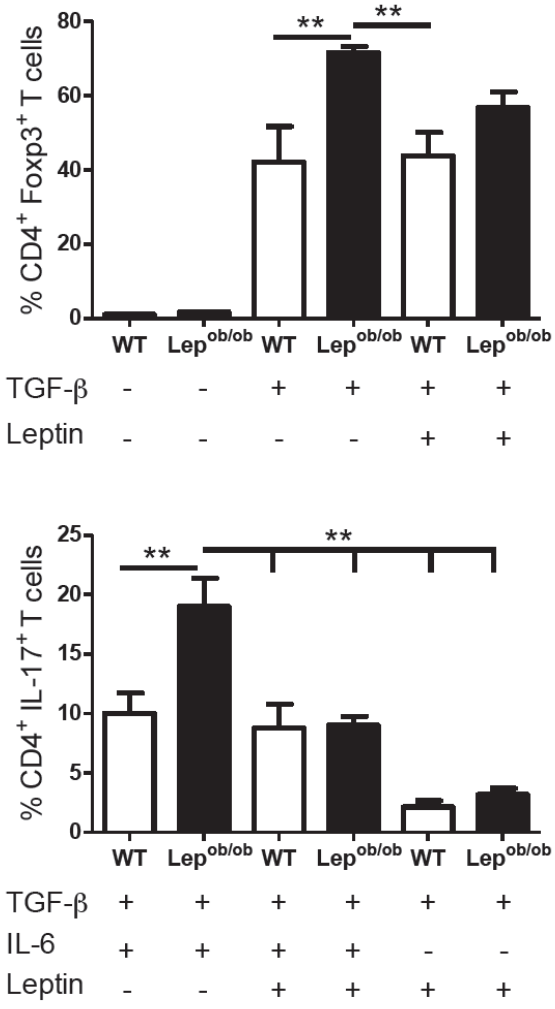

Figure S3: Tregs and Th17 cells from Lep$^{ob/ob}$ naïve T cells are more effectively induced than those from WT naïve T cells. Naïve ($CD4^+CD62L^+CD44^-CD25^-$) T cells from wild-type or Lep$^{ob/ob}$ B6 mice were cultured for 5 days in the presence or absence of TGF-β, IL-6 and leptin. Treg and Th17 differentiation of naïve $CD4^+$ T cells from WT and Lep$^{ob/ob}$ mice. The induction of $Foxp3^+$ $CD4^+$ T cells and IL-17^+ $CD4^+$ T cells was evaluated through the intracellular staining of Foxp3 and IL-17, respectively. The data are representative of three independent experiments. Lep$^{ob/ob}$: $CD4^+$ T cells from Lep$^{ob/ob}$ cultured in the absence of leptin; Lep$^{ob/ob}$Lep: $CD4^+$ T cells from Lep$^{ob/ob}$ cultured in the presence of recombinant leptin; WT: $CD4^+$ T cells from wild-type mice. Data are represented from three independent experiments. The results are shown as the mean ± SEM. **$p < 0.01$.

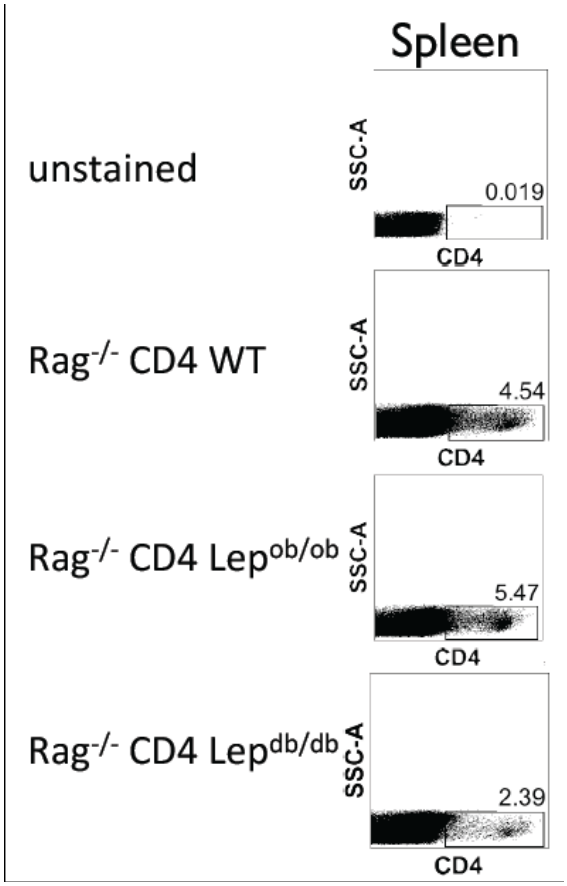

Figure S4: CD4^{+} T cell frequency in RAG$^{-/-}$ skin-transplanted mice. A total of 5×.10^{6} purified CD4^{+} T cells from wild-type, Lep$^{ob/ob}$ or Lep$^{db/db}$ mice were transferred to skin-grafted RAG$^{-/-}$ mice. At the time of the last graft rejection, the lymph nodes were obtained and stained with an anti-CD4 antibody. The cells were analyzed by flow cytometry. The data are representative of two independent experiments. (n = 3 mice/group).