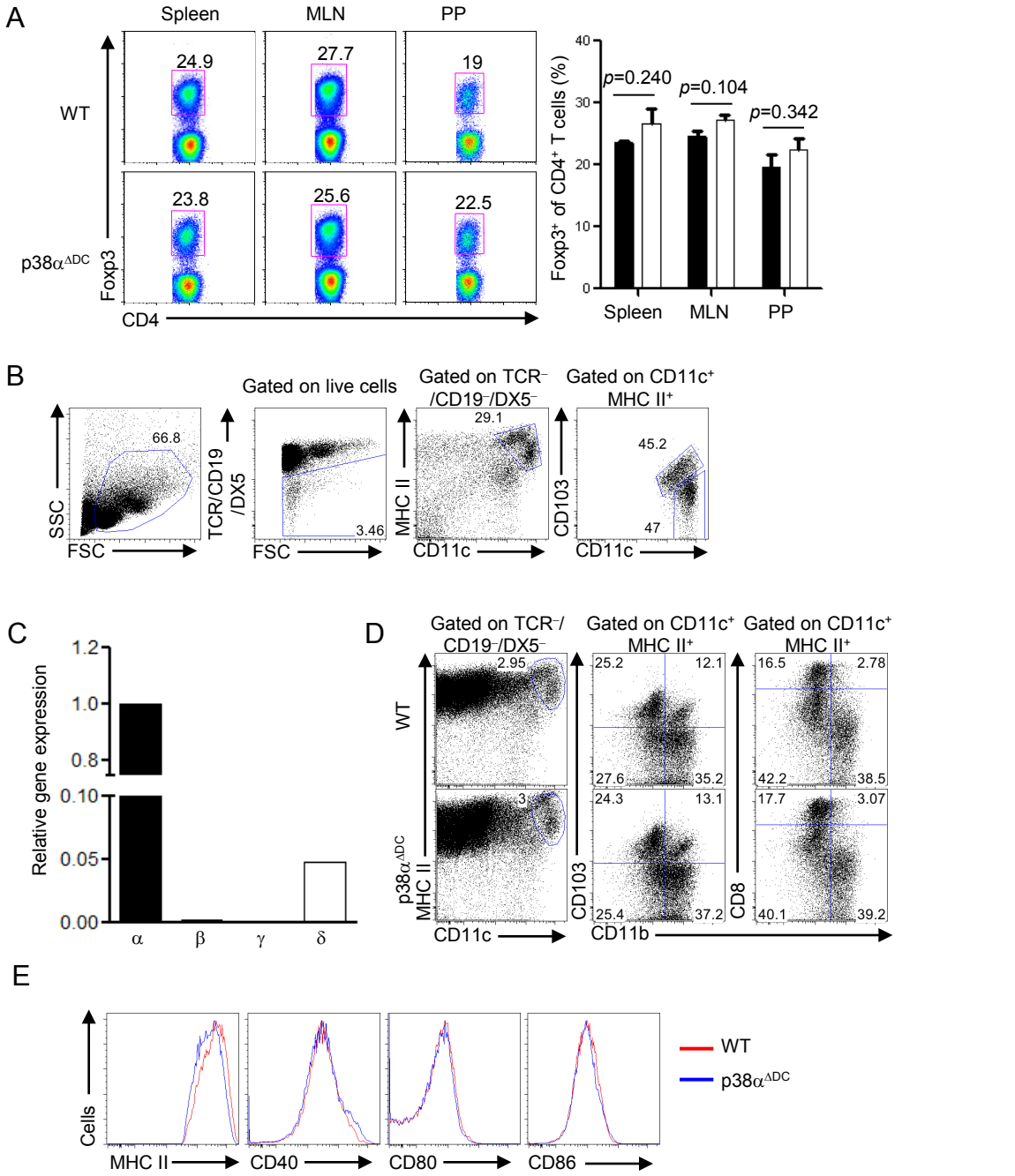
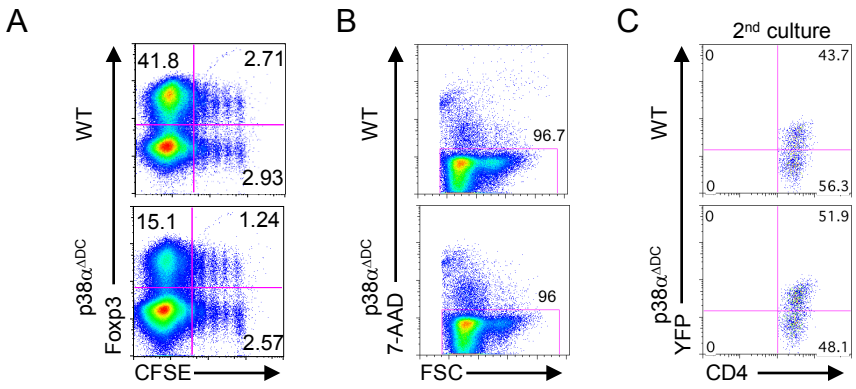
S-Fig.1



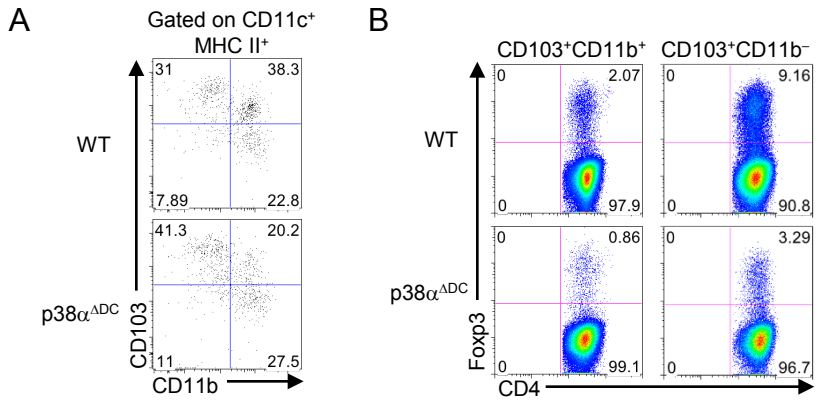
Supplementary Figure 1. Expression and deletion of p38α in mucosal DCs. (A) Expression of Foxp3 and proportion of Foxp3$^+$ Treg cells among CD4$^+$ T cells in the spleen, MLN and Peyer's patches (PP) of WT and p38α$^{\Delta DC}$ mice. **(B)** Sorting strategy of CD103$^+$ and CD103$^-$ MLN DCs. **(C)** RNA analysis of p38α, p38β, p38γ and p38δ in CD103$^+$ MLN DCs. **(D)** Analysis of MLN DC subsets in WT and p38α$^{\Delta DC}$ mice. **(E)** Analysis of MLN DC maturation markers in WT and p38α$^{\Delta DC}$ mice. Data are representative of 2-3 independent experiments (n=3-4 mice per group). Error bars indicate S.E.M.

S-Fig. 2



Supplementary Figure 2. **Effects of p38α deletion on mucosal DC-mediated T cell responses. (A)** Expression of Foxp3 in CFSE-labeled T cells activated by WT or p38α-deficient $CD103^+$ MLN DCs for 5 days. **(B)** Analysis of viability ($7\text{-}AAD^-$) in T cells activated with WT or p38α-deficient $CD103^+$ MLN DCs for 5 days. **(C)** Naïve T cells from $Foxp3^{YFP\text{-}Cre}$ mice were activated with WT $CD103^+$ DCs for 4 days, and then sorted YFP^+ cells were re-stimulated with WT or p38α-deficient $CD103^+$ DCs in the second-round culture for 4 days, before analysis of Foxp3-YFP expression. Data are representative of 2 independent experiments (n=3 mice per group).

S-Fig. 3



Supplementary Figure 3. **Effect of p38α deletion on lamina propria (LP) CD103$^+$CD11b$^+$ and CD103$^+$CD11b$^-$ DC functions.** **(A)** Analysis of intestinal LP DC subsets in WT and p38α$^{\Delta DC}$ mice. **(B)** Expression of Foxp3 in OT-II T cells activated by WT or p38α-deficient CD103$^+$CD11b$^+$ or CD103$^+$CD11b$^-$ LP DCs, in the presence of OVA (0.05 μg/ml), for 5 days. Data are representative of 2 independent experiments (n=3 mice per group).