

Supplemental Figure Legends

SUPPLEMENTAL FIGURE 1. IL-10-DCs have Ag-specific effects (OVA model). (A) Lung sections of Ctrl-DCs/OVA, OVA-DCs/OVA, OVA-IL-10-DCs/OVA-DCs/OVA, Derp1-IL-10-DCs/OVA-DCs/OVA, and Derp1-IL-10-DCs+OVA-DCs/OVA mice were stained with either hematoxylin and eosin (A) or PAS (B). (C) Lungs were assayed for Muc5ac mRNA expression by real time quantitative RT-PCR. All values are normalized to β -actin mRNA. (D) AHR was assessed by using double-chamber plethysmography, and by analyzing sRaw responses to increasing concentrations of MCh. (E) Levels of OVA-specific IgE and IgG1 were measured in serum samples by ELISA. OVA-specific IgE and IgG1 levels are expressed as AUs. (F) IL-4 and IFN- γ levels in the supernatants of MLN cells restimulated in vitro for 4 d with 10 μ g/ml OVA were determined by ELISA. All numerical data are presented as means \pm SDs. {degree sign}, significantly different from the values obtained in Ctrl-DCs/OVA mice. *, significantly different from the values obtained in OVA-DCs/OVA mice. All these results are representative of at least 3 similar experiments. $n \geq 6$ in each experimental group.

SUPPLEMENTAL FIGURE 2. IL-10-DCs have Ag-specific effects (Derp1 model). (A) Lung sections of Ctrl-DCs/Derp1, Derp1-DCs/Derp1, OVA-IL-10-DCs/Derp1-DCs/Derp1, Derp1-IL-10-DCs/Derp1-DCs/Derp1, and OVA-IL-10-DCs+Derp1-DCs/Derp1 mice were stained with either hematoxylin and eosin (A) or PAS (B). (C) Lungs were assayed for Muc5ac mRNA expression by real time quantitative RT-PCR. All values are normalized to β -actin mRNA. (D) AHR was assessed by using double-chamber plethysmography, and by analyzing sRaw responses to increasing concentrations of MCh. (E) Levels of Derp1-specific IgE and IgG1 were measured in serum samples by ELISA. Derp1-specific IgE and IgG1 levels are expressed as AUs. (F) IL-4 and IFN- γ levels in the supernatants of MLN cells restimulated in vitro for 4 d with 10 μ g/ml OVA were determined by ELISA. All numerical data are presented as means \pm SDs. {degree sign}, significantly different from the values obtained in Ctrl-DCs/Derp1 mice. *, significantly different from the values obtained in Derp1-DCs/Derp1 mice. All these results are representative of at least 3 similar experiments. $n \geq 6$ in each experimental group.

SUPPLEMENTAL FIGURE 3. Host IL-10 is required for mediating the effects of OVA-IL-10-DCs. (A) Lungs of Ctrl-DCs/OVA, OVA-DCs/OVA, OVA-eGFP-DCs/OVA-DCs/OVA, and OVA-IL-10-DCs/OVA-DCs/OVA IL-10-/- C57BL/6 mice were assayed for Muc5ac mRNA expression by real time quantitative RT-PCR. All values are normalized to β -actin mRNA. (B) Levels of OVA-specific IgE and IgG1 were measured in serum samples by ELISA. OVA-specific IgE and IgG1 levels are expressed as AUs. (C) IL-4 and IFN- γ levels in the supernatants of MLN cells restimulated in vitro for 4 d with 10 μ g/ml OVA were determined by ELISA. All numerical data are presented as means \pm SDs. *, significantly different from the values obtained in Ctrl-DCs/OVA mice. All these results are representative of at least 3 similar experiments. $n \geq 6$ in each experimental group.

SUPPLEMENTAL FIGURE 4. Long-lasting preventive effects of OVA-IL-10-DCs. (A) Lung sections of Ctrl-DCs/3xOVA, OVA-DCs/3xOVA, OVA-eGFP-DCs/OVA-DCs/3xOVA, and OVA-IL-10-DCs/OVA-DCs/3xOVA mice were stained with either hematoxylin and eosin (A) or PAS (B). (C) Lungs were assayed for Muc5ac mRNA expression by real time quantitative RT-PCR. All values are normalized to β -actin mRNA. (D) AHR was assessed by using double-chamber plethysmography, and by analyzing sRaw responses to increasing concentrations of MCh. (E) Levels of OVA-specific IgE and IgG1 were measured in serum samples by ELISA. OVA-specific IgE

and IgG1 levels are expressed as AUs. (F) IL-4 and IFN- γ levels in the supernatants of MLN cells restimulated in vitro for 4 d with 10 $\mu\text{g/ml}$ OVA were determined by ELISA. All numerical data are presented as means \pm SDs. {degree sign}, significantly different from the values obtained in Ctrl-DCs/3xOVA mice. *, significantly different from the values obtained in OVA-DCs/3xOVA and OVA-eGFP-DCs/OVA-DCs/3xOVA mice. All these results are representative of at least 3 similar experiments. $n \geq 6$ in each experimental group.

SUPPLEMENTAL FIGURE 5. Long-lasting curative effects of OVA-IL-10-DCs. (A) Lungs sections of Ctrl-DCs/OVA/3xOVA, OVA-DCs/OVA/3xOVA, OVA-DCs/OVA/OVA-eGFP-DCs/3xOVA, and OVA-DCs/OVA/OVA-IL-10-DCs/3xOVA mice were stained with either hematoxylin and eosin (A) or PAS (B). (C) Lungs were assayed for Muc5ac mRNA expression by real time quantitative RT-PCR. All values are normalized to β -actin mRNA. (D) AHR was assessed by using double-chamber plethysmography, and by analyzing sRaw responses to increasing concentrations of MCh. (E) Levels of OVA-specific IgE and IgG1 were measured in serum samples by ELISA. OVA-specific IgE and IgG1 levels are expressed as AUs. (F) IL-4 and IFN- γ levels in the supernatants of MLN cells restimulated in vitro for 4 d with 10 $\mu\text{g/ml}$ OVA were determined by ELISA. All numerical data are presented as means \pm SDs. {degree sign}, significantly different from the values obtained in Ctrl-DCs/OVA/3xOVA mice. *, significantly different from the values obtained in OVA-DCs/OVA/3xOVA and OVA-DCs/OVA/OVA-eGFP-DCs/3xOVA mice. All these results are representative of at least 3 similar experiments. $n \geq 6$ in each experimental group.