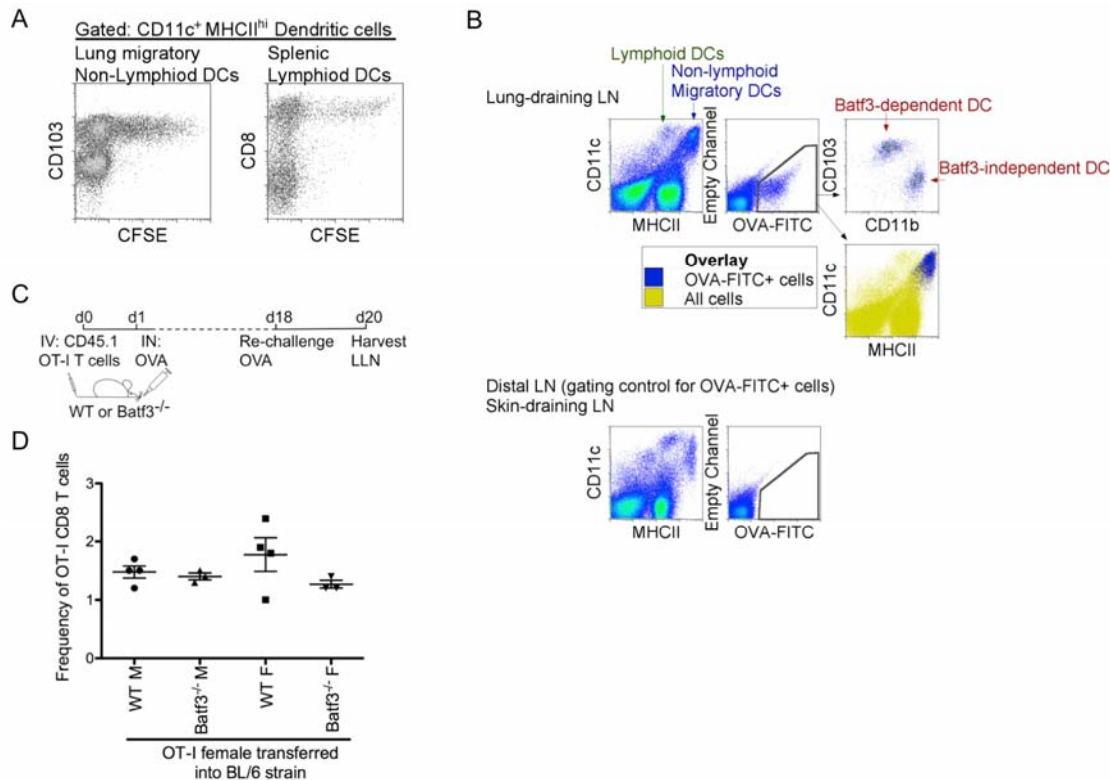
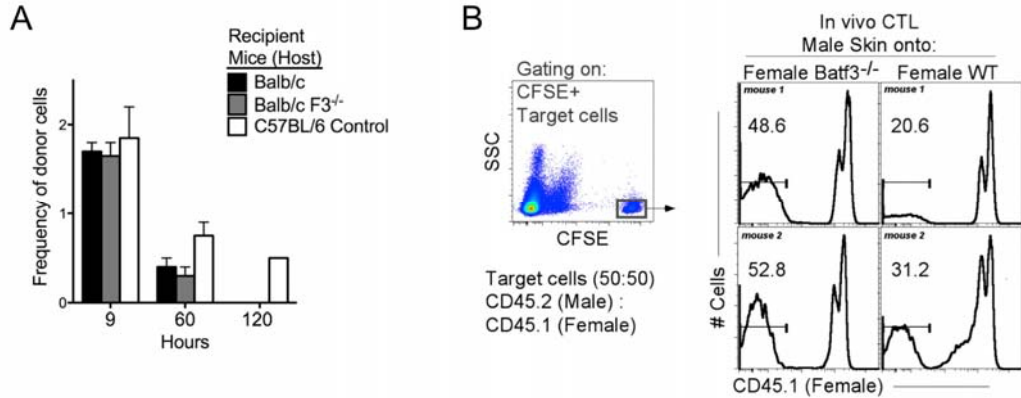


## Supplemental Figures



### Supplemental Figure 1. Non-lymphoid CD103<sup>+</sup> and lymphoid CD8<sup>+</sup> Batf3-dependent DCs selectively engulf apoptotic cells, whereas soluble OVA is acquired and trafficked by both Batf3-dependent and Batf3-independent migratory DCs.

(A) Lung-draining LNs (LLNs) or spleen were isolated 24h post i.n. or i.v. delivery of CFSE-labeled apoptotic cells. Non-lymphoid and lymphoid DCs were gated and plotted as CD103 or CD8 versus CFSE (efferocytic DCs). (B) C57BL/6 mice were inoculated with OVA-FITC. LLNs (upper panels) and distal skin-draining LNs (as control, lower panels) were isolated 24h later and analyzed by flow. OVA<sup>+</sup> trafficking cells were identified as FITC<sup>+</sup>. Overlay shows OVA<sup>+</sup> cells were migratory DCs CD11c<sup>+</sup>MHCII<sup>hi</sup> (blue) from total live cells (yellow). Top left plot shows that migratory DCs, Batf3-dependent CD103<sup>+</sup> and Batf3-independent CD11b<sup>+</sup> DCs, traffic OVA antigen to the LLNs. (C) Schematic diagram of experimental design for the induction of male-antigen rejection in female mice. (D) Using experimental design as described in schematic diagram (C). Scatter plot displays the frequency of recalled female OT-I CD8 T cells from total CD8 T cells in C57BL/6 WT and Batf3<sup>-/-</sup> male and female recipient mice. Data is representative of three independent experiments.



**Supplemental Figure 2. Induction of male antigen-specific CTL of male skin grafts on female recipients requires Batf3-dependent DCs.**

(A) Allogeneic donor cell rejection 9h, 60h and 120h post AT of C57BL/6 lymphocytes into Balb/c WT and Batf3<sup>-/-</sup> mice, and C57BL/6 control mice. (B) In vivo CTL assay. 30 days post male skin transplant onto Batf3<sup>-/-</sup> or WT female mice, mice were i.v. injected with (1:1) CFSE-labeled male (CD45.2<sup>+</sup>) and female (CD45.1<sup>+</sup>) target cells. 3d post target cell transfer, cytotoxicity was assessed. Data represents 2 of the 4 mice per group.