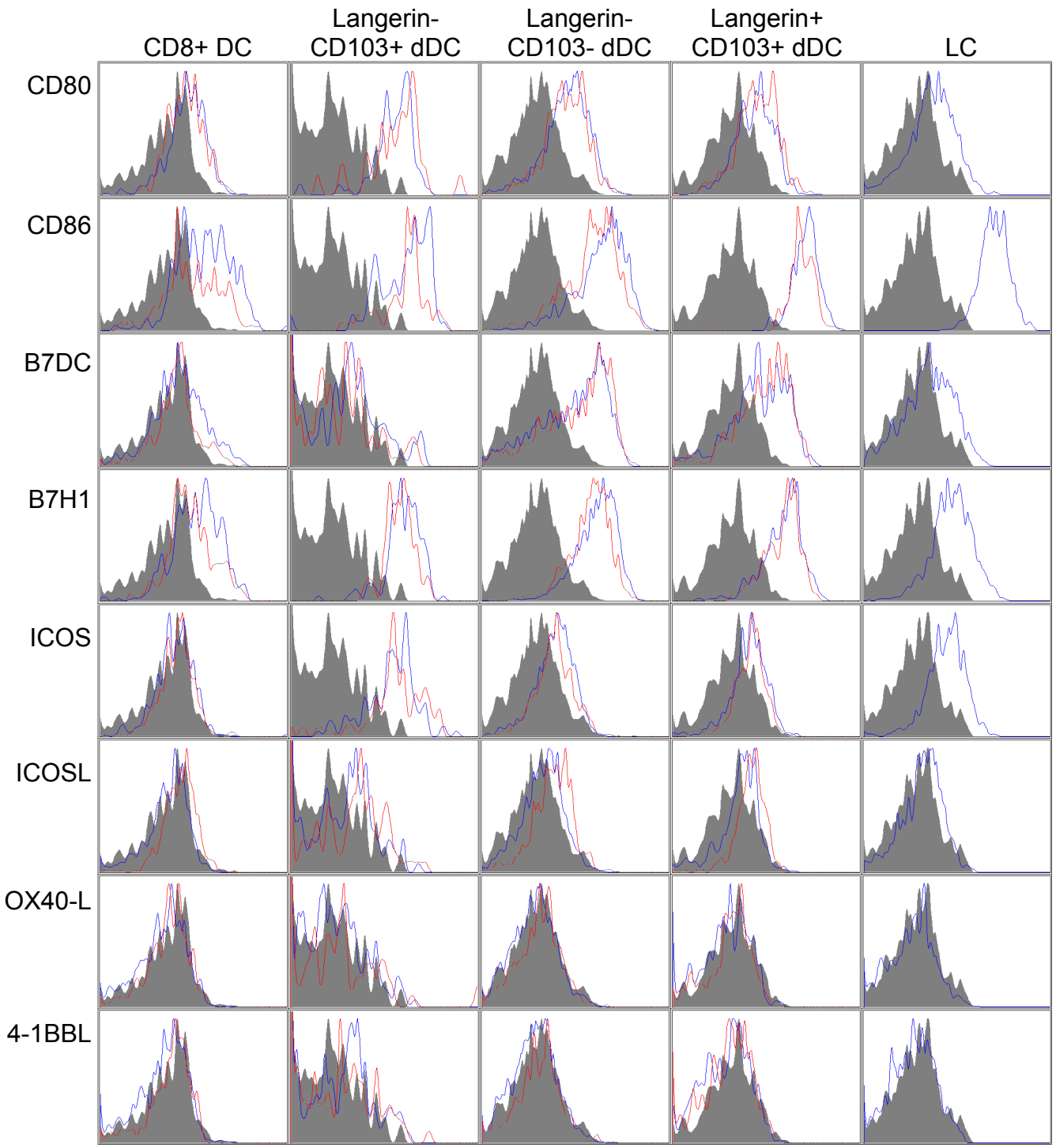
Figure 7. Optimal suppression of CHS requires LC-derived IL-10.

A) Langerin-Cre x IL-$10^{f/f}$ (black bars) and IL-$10^{f/f}$ littermate controls (WT, grey bars) were sensitized with 0.5% DNFB or vehicle alone (white bars) and challenged with 0.2% DNFB. Data represents the change of ear thickness over baseline after 24 hr (*$p<0.05$). B) Specific ear swelling is shown over 3 days in Langerin-Cre x IL-$10^{f/f}$ (solid line),WT (broken line) and vehicle controls (thin line). C) As in (A) Langerin-Cre I-A$\beta^{f/f}$/IL-$10^{f/f}$ (black bar), Langerin-Cre I-A$\beta^{f/f}$ (dark grey bar) and WT (grey bar) (*$p<0.05$). D) As in (B) Langerin-Cre I-A$\beta^{f/f}$/IL-$10^{f/f}$ (solid line), Langerin-Cre I-A$\beta^{f/f}$ (long-dashed line), littermate controls (short-dashed line) and vehicle controls (thin line). E) FasL expression was assessed on LC (left) and Langerin+ DC (right) isolated from the lymph node of Langerin-Cre I-A$\beta^{f/f}$ (dashed line) and littermate control (solid line) mice ($p<0.05$ MFI for LC). Shaded area represents isotype control. F) Total LN cells from WT (left) and Langerin-Cre I-A$\beta^{f/f}$ mice (right) were incubated in complete RPMI overnight with a 10ug/ml blocking anti-CD40 antibody (dashed line) or isotype control (solid line). Levels of FasL expression on cells gated on LC are shown. Representative experiments from at least 3 repeats are shown.

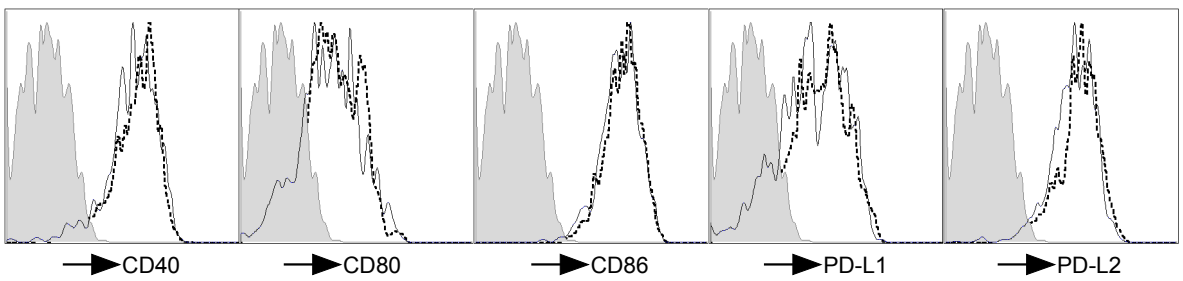
Supplemental Figure 1. The expression of co-stimulatory molecules is unaffected by the absence of LCs. A) The expression of indicated surface molecules on DC obtained from skin-draining LN isolated from Langerin-DTA (red) and littermate control (blue) was compared by flow cytometry. Live cells were gated on CD11c+, MHC-II^{bright} and as indicated. LC were gated as Langerin+, CD103-, CD11b+. Shaded area represents isotype control. B) The expression of the indicated surface molecules on LC obtained from skin-draining LN isolated from Langerin-Cre I-A$\beta^{f/f}$

(solid line) andWT (dashed) mice was compared by flow cytometry. Shaded area represents isotype control.

A


CD8+ DC
Langerin- CD103+ dDC
Langerin- CD103- dDC
Langerin+ CD103+ dDC
LC
CD80
CD86
B7DC
B7H1
ICOS
ICOSL
OX40-L
4-1BBL

B


CD40
CD80
CD86
PD-L1
PD-L2