Supporting Information

Oyoshi et al. 10.1073/pnas.1203127109



Fig. S1. Normal systemic immune response in EC-sensitized Δ dblGATA and LTC₄S^{-/-} mice. (*A* and *B*) Systemic immune response in EC-sensitized Δ dblGATA mice. There is cytokine secretion by splenocytes in response to OVA stimulation in vitro (*A*) and serum levels of OVA-specific antibodies (*B*). (*C* and *D*). Systemic immune response in EC-sensitized LTC₄S^{-/-} mice. There is cytokine secretion by splenocytes in response to OVA stimulation in vitro (*A*) and serum levels of OVA-specific antibodies (*B*). (*C* and *D*). Systemic immune response in EC-sensitized LTC₄S^{-/-} mice. There is cytokine secretion by splenocytes in response to OVA stimulation in vitro (*C*) and serum levels of OVA-specific antibodies (*D*). Columns and error bars represent the mean and SEM (*n* = 5–6 per group). One-way ANOVA was used to determine statistical differences between groups. Similar results were obtained in two other experiments (*A* and *B*) and another independent experiment (*C* and *D*) with five mice per group. **P* < 0.05; ***P* < 0.01; ****P* < 0.001. ns, not significant, SAL, saline.



Fig. S2. Impaired epidermal and dermal thickening and collagen deposition in OVA-sensitized skin of $LTC_4S^{-/-}$ mice on C57BL/6 background. (A) Epidermal and dermal thickness. (B) Collagen content in EC-sensitized skin. (C) Numbers per high-power field (HPF) of eosinophils and CD4⁺ cells infiltrating the dermis. Columns and error bars represent the mean and SEM (n = 5-6 per group). One-way ANOVA was used to determine statistical differences between groups. Similar results were obtained in another independent experiment with five mice per group. *P < 0.05; **P < 0.01; ***P < 0.001. ns, not significant; SAL, saline.



Fig. S3. Primary human skin fibroblasts express Cysltr1 and Cysltr2. Expression levels of cys-LT receptor mRNA relative to GAPDH mRNA.