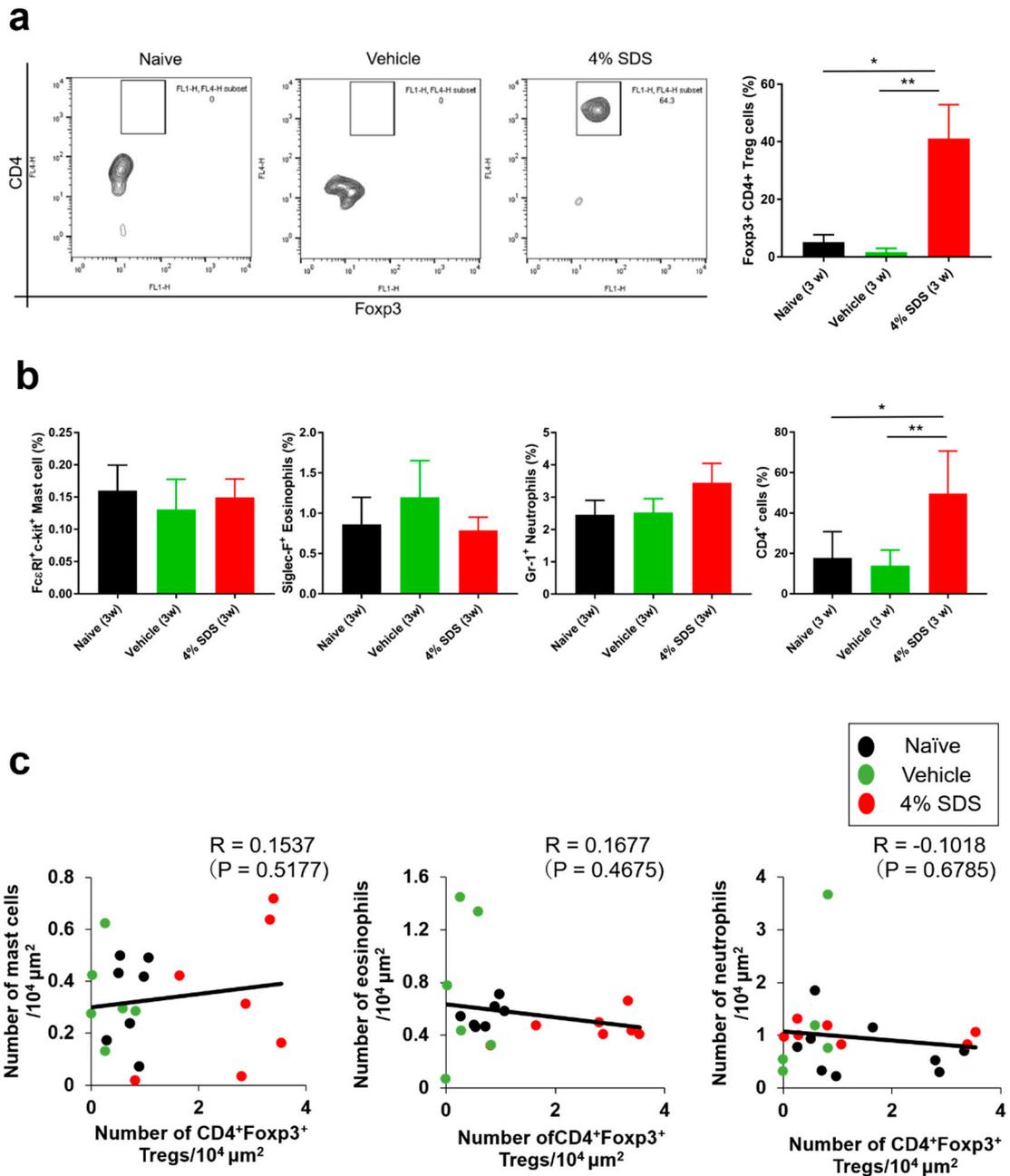


Regulatory T Cells Exhibit Interleukin-33-Dependent Migratory Behavior during Skin Barrier Disruption

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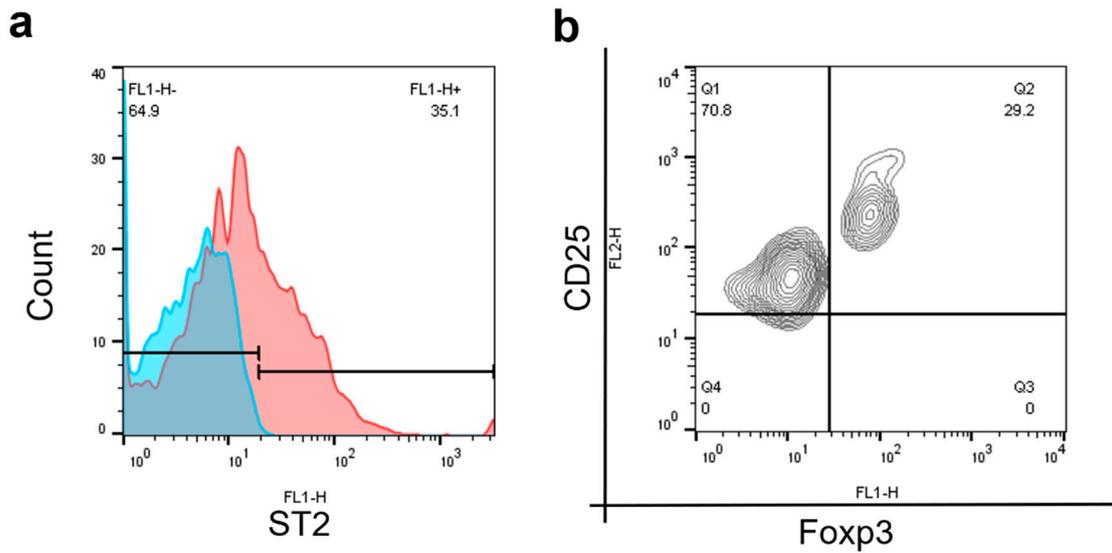
Supplementary Figure S1. Correlation analyses between Treg infiltration and mast

cell, eosinophil and neutrophil infiltration. a; The proportion of CD4⁺Foxp3⁺ Treg cells

among CD25⁺ cells was assessed by flow cytometry. Data show representative results

from 8 mice of naïve, vehicle-treated and 4% SDS-treated skins per experiment and from

at least two independent experiments, each of which gave similar results. b; Percentage of FcεRI⁺c-kit⁺ mast cells, Siglec-F⁺ eosinophils, Gr-1⁺ Neutrophils and CD4⁺ cells in the skin. Data show representative results from 8-12 mice of naïve, vehicle-treated and 4% SDS-treated skins per experiment and from at least two independent experiments, each of which gave similar results. *P<0.05 and ** P<0.01 compared with naïve or vehicle-treated mice by the Kruskal-Wallis with Dunn's multiple-comparison test. c; Scatterplots of correlations between Treg number and the number of mast cells, eosinophils or neutrophils; N=21 (Naïve; N=7, Vehicle; N=6, 4% SDS; N=8). Coefficients (r) were determined by Spearman rank correlation tests. P<0.05 indicated significance. Results are shown as the mean ± SEM of two independent experiments.



Supplementary Figure S2. Expression analysis of ST2 or Foxp3 in isolated

CD4⁺CD25⁺ Tregs. a; The proportion of ST2⁺ Treg cells among CD4⁺ CD25⁺ T cells was

assessed by flow cytometry. Data show representative results from 4 mice of naïve mice

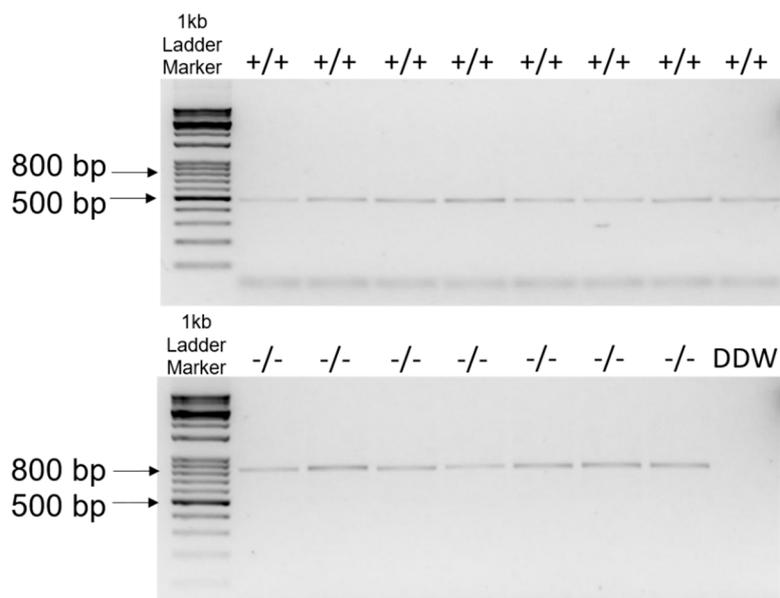
in spleen per experiment and from at least two independent experiments, each of which

gave similar results. b; The proportion of Foxp3⁺ Treg cells among CD4⁺ CD25⁺ T cells

was assessed by flow cytometry. Data show representative results from 4 mice of naïve

mice in spleen per experiment and from at least two independent experiments, each of

which gave similar results.



Supplementary Figure S3. Genotyping of IL-33^{-/-} mice. PCR genotyping of IL-33^{-/-} mouse tail DNA. Wild type; 489 bp, Knockout; 850 bp.