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Supplementary Figure 1|SA regulates the gene expression profiles of extracellular region on day 14 (A)Heatmap of differentially expressed genes in 0.5%SA group and control group.

(B)Scatter plot for GO analysis based on RNAseq data from mice treated with 0.5%SA or gel vehicle for 14 days. (C)Heatmap of differentially expressed genes in 1%SA group and control group.

(D)Scatter plot for GO analysis based on RNAseq data from mice treated with 1%SA or gel vehicle for 14 days. (E)Heatmap of differentially expressed genes in 2%SA group and control group.

(F)Scatter plot for GO analysis based on RNAseq data from mice treated with 2%SA or gel vehicle for 14 days.



Supplementary Figure 2|SA regulates genes associated with keratinization, lipid metabolic process on day 28 (A)Heatmap of differentially expressed genes in 0.5%SA group and control group.

(B)Scatter plot for GO analysis based on RNAseq data from mice treated with 0.5%SA or gel vehicle for 28 days. (C)Heatmap of differentially expressed genes in 1%SA group and control group.

(D)Scatter plot for GO analysis based on RNAseq data from mice treated with 1%SA or gel vehicle for 28 days. (E)Heatmap of differentially expressed genes in 2%SA group and control group.

(F)Scatter plot for GO analysis based on RNAseq data from mice treated with 2%SA or gel vehicle for 28 days.



Supplementary Figure 3 | KEGG enrichment of dorsal skin

(A)Scatter plot for KEGG analysis based on RNAseq data from mice treated with 0.5%SA or gel vehicle for 14 days. (B)Scatter plot for KEGG analysis based on RNAseq data from mice treated with 0.5%SA or gel vehicle for 28 days. (C)Scatter plot for KEGG analysis based on RNAseq data from mice treated with 1%SA or gel vehicle for 14 days. (DScatter plot for KEGG analysis based on RNAseq data from mice treated with 1%SA or gel vehicle for 28 days (E)Scatter plot for KEGG analysis based on RNAseq data from mice treated with 1%SA or gel vehicle for 28 days (E)Scatter plot for KEGG analysis based on RNAseq data from mice treated with 2%SA or gel vehicle for 14 days. (F)Scatter plot for KEGG analysis based on RNAseq data from mice treated with 2%SA or gel vehicle for 28 days.