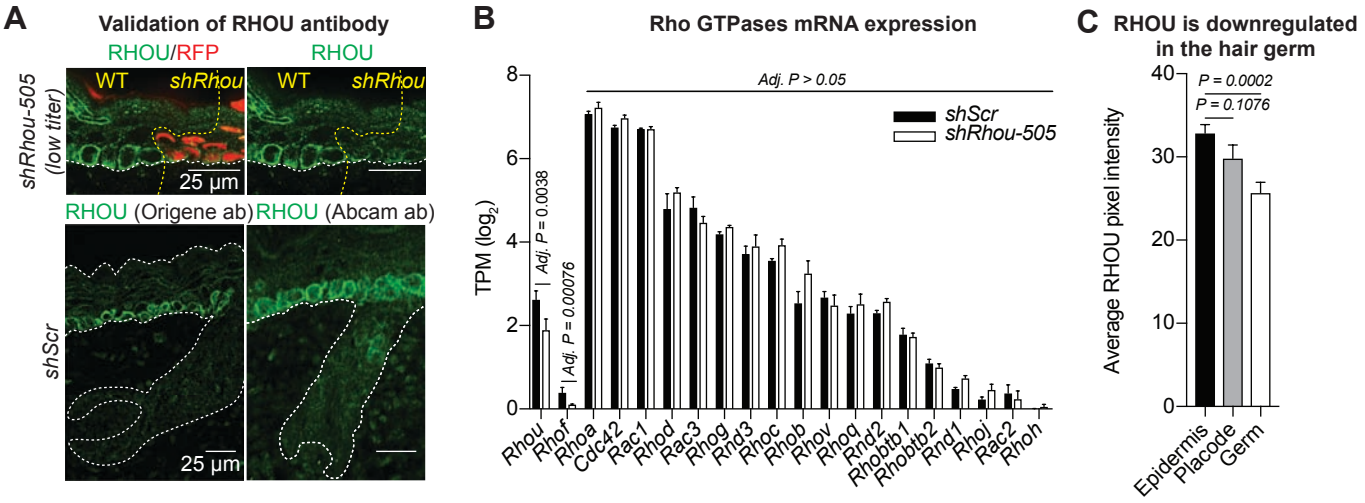

Figure 3 - supplement 1. Validation of the *shRhou* Knockdown and RHOU Antibody Specificity. (**A**) Validation of *Rhou* knockdown and specificity of anti-RHOU antibody for immunofluorescence. (Top panel): Shown is immunofluorescence of sagittal sections showing a *shRhou*-transduced and a non transduced region. (Bottom panel): RHOU expression pattern in the skin was confirmed using a second antibody. Scale bars, 25 µm (**B**) Differential gene expression analysis using DESeq2 shows that a dozen other Rho GTPases, including closely related *Rhov*, which were expressed in the skin epithelium at comparable or higher levels than *Rhou*, showed no change in expression levels in RHOU-deficient skin. (**C**) Quantifications of RHOU mean pixel intensity in the epidermis, placode and hair germ. Error bars represents SEM from n=14 epidermis regions, n=10 placodes, n=10 hair germs. Normal distribution of the data was determined using the Shapiro-Wilk test. Parametric independent two-tailed unpaired *t*-test was used to compare the data.