Supplementary Material

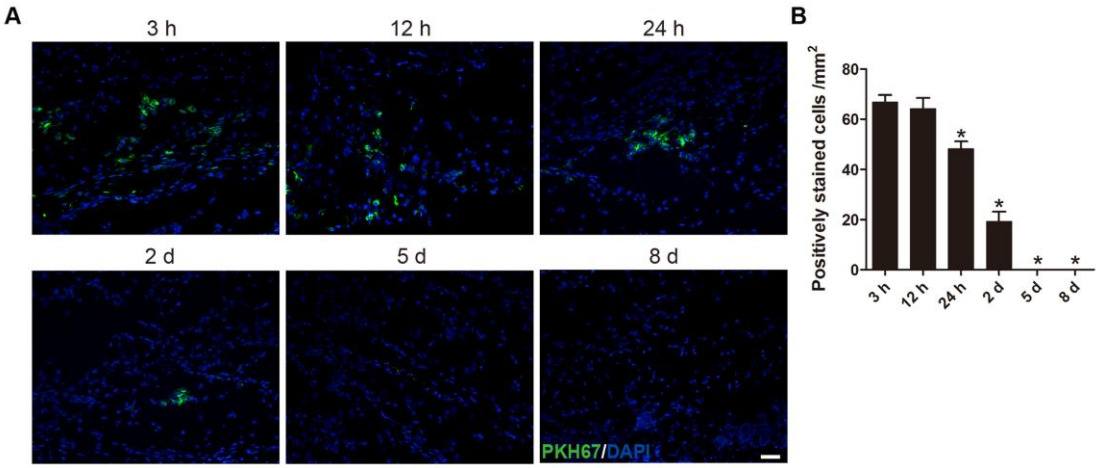

Figure S1. Retention of UCB-Exos in skin tissues. (A) Representative images of UCB-Exos incorporation in skin tissues at different time point. Scale bar: 50 μm. **(B)** Quantitative analysis of the number of skin cells that took up the PKH67-labeled exosomes at indicated times in **(A)**. n = 3 per group. **P* < 0.05 compared with the t = 3 h group.

Methods

To trace the administered UCB-Exos *in vivo*, exosomes were labeled with PKH67 (Sigma) and 200 μg PKH67-labeled UCB-Exos (dissolved in 100 μL PBS) were subcutaneously injected into the adjacent normal tissues around the wound at four different sites (25 μL per site) in each mouse (three mice per time point). 3 h, 12 h, 24 h, 2 d, 5 d or 8 d later, the mice were sacrificed and skin specimens were harvested. The tissues were then embedded in OCT, cut into 10 μm thick sections and nuclei were stained with DAPI (0.5 μg/mL; Invitrogen). Images were observed with a fluorescence microscope (Leica DMI6000B). The numbers of skin cells that took up the PKH67-labeled exosomes at indicated times were quantified from at least three random visual fields per section.