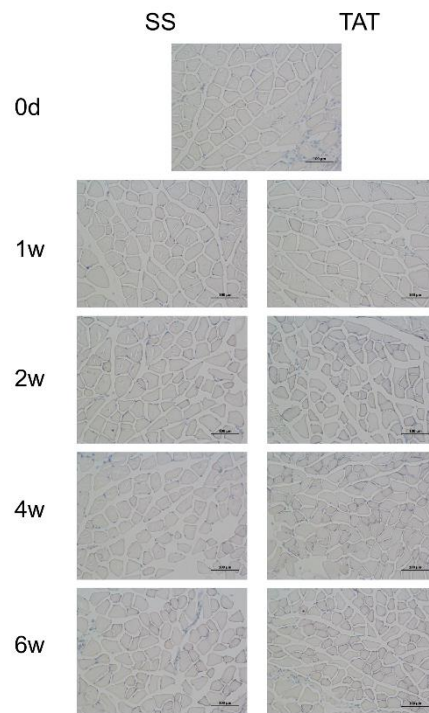
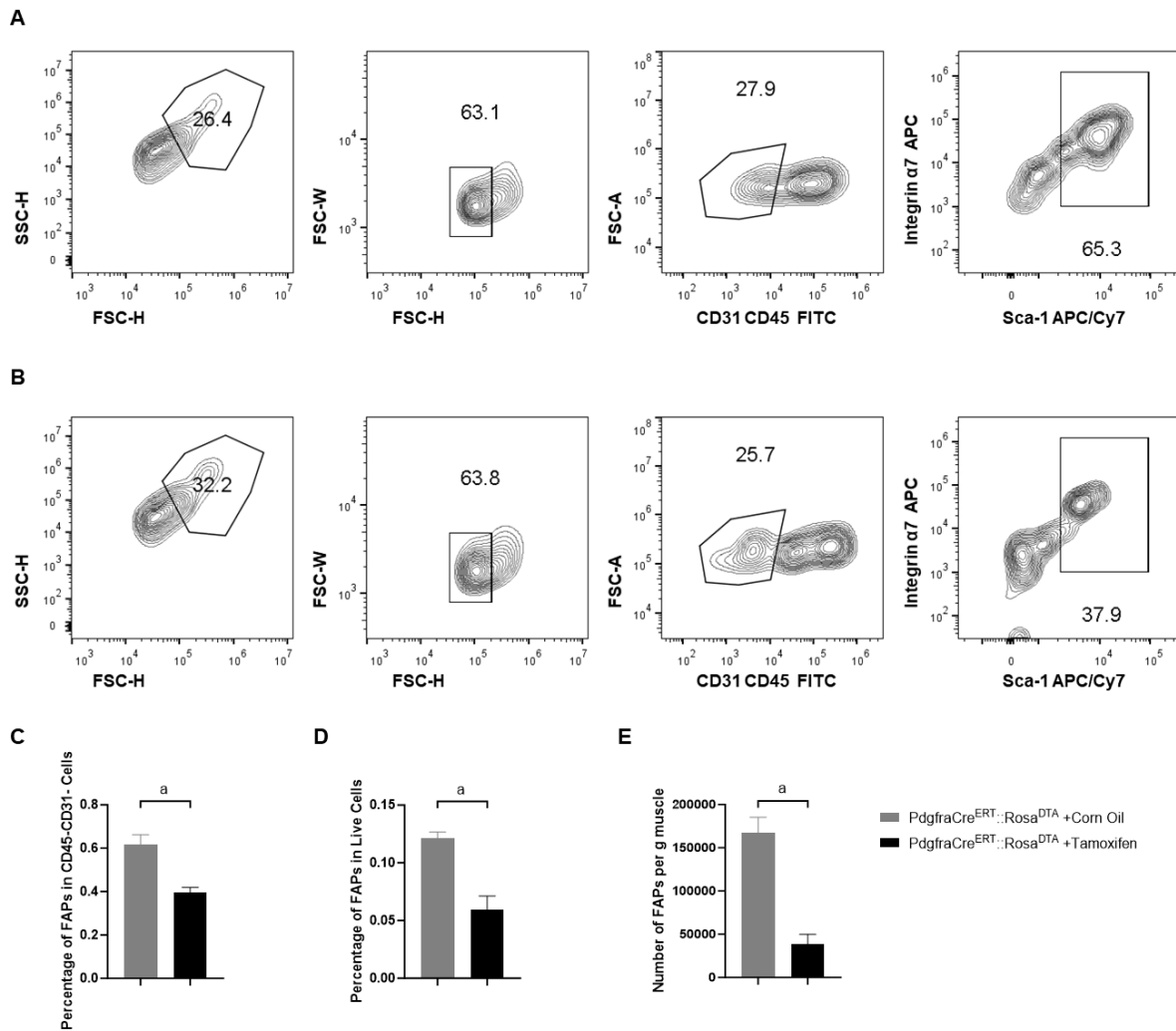


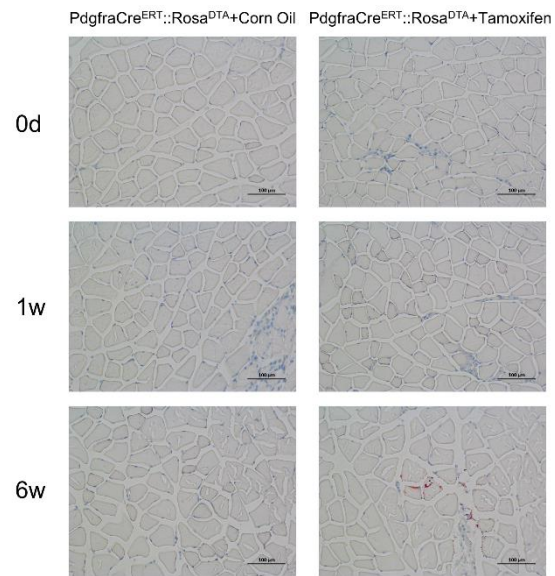
Supplementary materials



Supplementary Figure 1 Images of ORO staining which reflects the severity of adipogenesis of the TA muscle at 0d-1w-2w-4w-6w after TAT or SS in C57BL/6 mice.
ORO: Oil red staining; TA: Tibialis anterior; TAT; Tibialis anterior tenotomy.



Supplementary Figure 2 The efficacy of FAPs depletion in PdgfraCre^{ERT}::Rosa^{DTA} mice. The FACS results of FAPs in the TA muscle collected at 3d post CTX injection from PdgfraCre^{ERT}::Rosa^{DTA} mice that were injected i.p. with either (A) plain corn oil as the control or (B) Tamoxifen dissolved in corn oil to deplete FAPs. Subsequent analysis showed (C) the proportion of FAPs among CD45-CD31⁺ cells (compared to control group, ^aP < 0.01), (D) the proportion of FAPs among live cells (compared to control group, ^aP < 0.01), and (E) the number of FAPs per gram TA muscle (compared to control group, ^aP < 0.001). FACS: Fluorescence-activated cell sorting; TA: Tibialis anterior; TA CTX injection model, a classic model where FAPs would proliferated massively at 3d post injection.



Supplementary Figure 3 The oil red staining results which reflects the severity of adipogenesis of the tibialis anterior muscle at 0d-1w-6w after tibialis anterior tenotomy in $\text{PdgfraCre}^{\text{ERT}}::\text{Rosa}^{\text{DTA}}$ mice induced with Tamoxifen or corn oil.