



Supplementary Figure 6. Blockage of Rab27a by siRNA reduced therapeutic effects of MSCT in *Tsk*^{+/+} mice. (A) MicroCT analysis showing BMD and TB area in distal femurs of *Tsk*^{+/+}, MSCT-treated *Tsk*^{+/+} and siRab27a-MSCT-treated *Tsk*^{+/+} mice. (B) H&E staining showing TB volume (yellow-circled area) in *Tsk*^{+/+}, MSCT-treated *Tsk*^{+/+} and siRab27a-MSCT-treated *Tsk*^{+/+} mouse distal femurs. Scale bar, 1 mm. (C) Histological images of distal femurs showing the number of adipocytes in *Tsk*^{+/+}, MSCT-treated *Tsk*^{+/+} and siRab27a-MSCT-treated *Tsk*^{+/+} mouse bone marrow based on Oil red O staining. Scale bar, 50 μm . All experimental data were verified in at least 3 independent experiments. Error bars represent the s.d. from the mean values. *** $P < 0.005$.