

Supporting Information

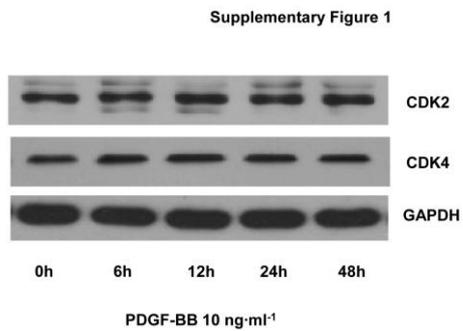


Figure S1. Expression of CDK2 and CDK4 have no remarkable change in PDGF-BB treated HPASMCs.

After 24 hours serum starvation, HPASMCs were treated with 10 ng·ml⁻¹ PDGF-BB and harvested at the indicated time points. CDK2 and CDK4 protein levels were analyzed by western blotting.

Supplementary Figure 2

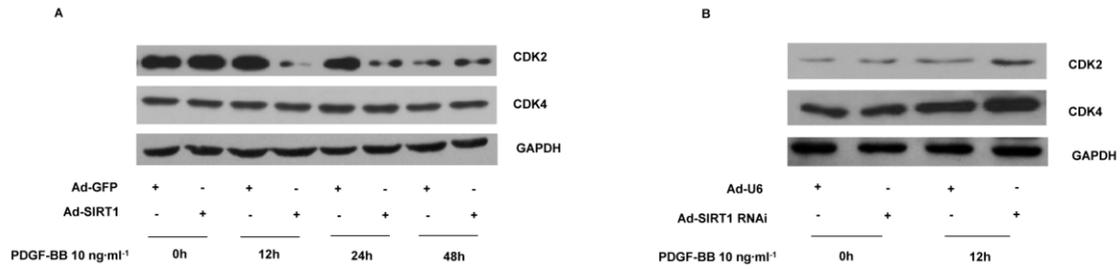


Figure S2. Overexpression of SIRT1 decreases CDK2 protein level but not affects CDK4 expression.

HPASMCs infected with Ad-SIRT1(A) or control Ad-GFP, and Ad-SIRT1 RNAi (B) or control Ad-U6 were treated with 10 ng·ml⁻¹ PDGF-BB for the indicated period. CDK2 and CDK4 protein expression level were analyzed by western blotting.

Supplementary Figure 3

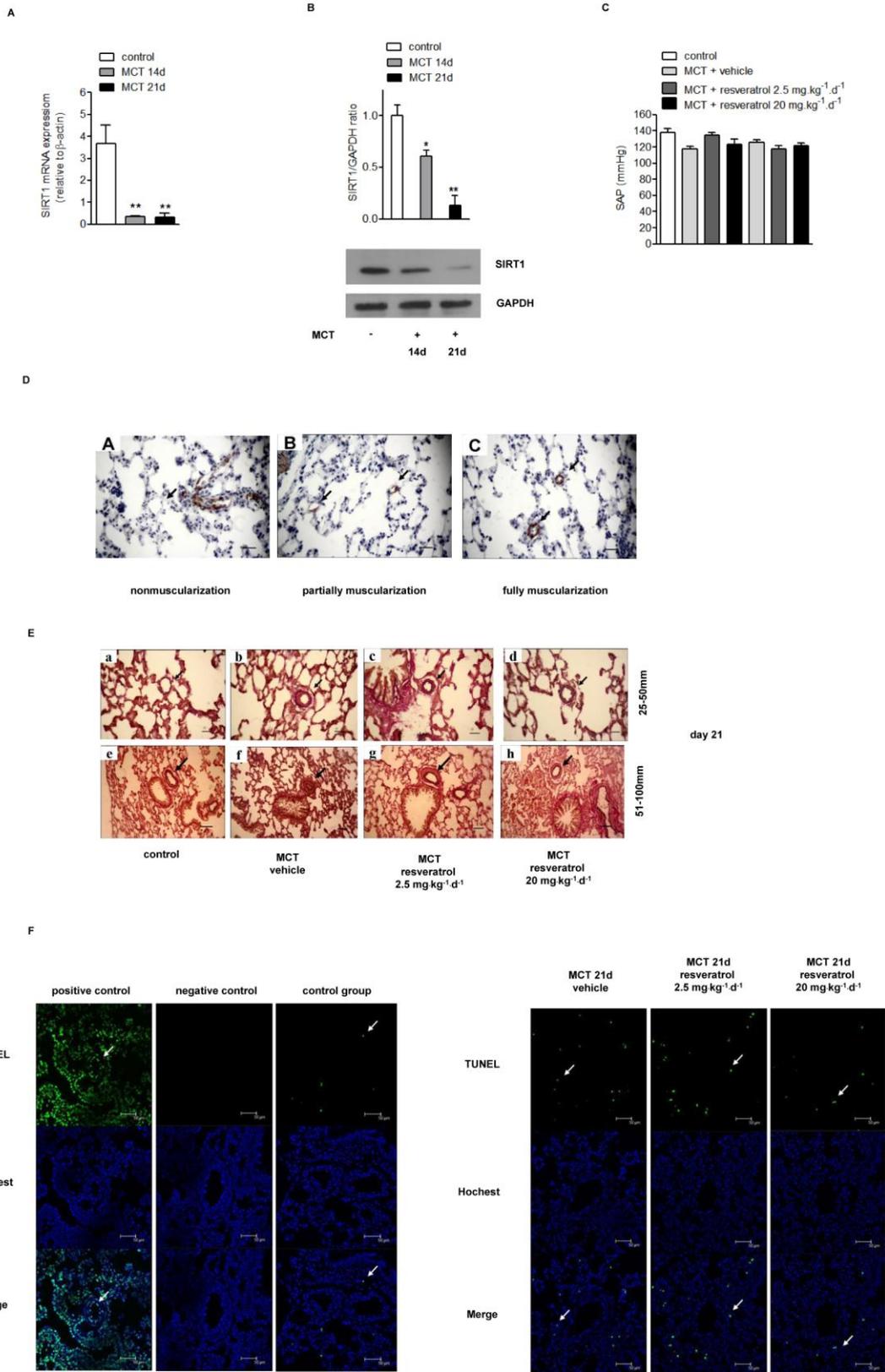


Figure S3. SIRT1 expression level and the effect of resveratrol in MCT-induced PAH rats.

(A) SIRT1 mRNA level in lungs of MCT-induced PAH rats was analyzed by real-time PCR (n=3). (B) SIRT1 protein level in lungs of MCT-induced PAH rats was analyzed by western blotting. **P* < 0.05, ***P* < 0.01 versus control. (C) Systemic arterial pressure (SAP; in mmHg) in the different treatment group is shown. Data shown are Mean ± SEM (n=8-10). (D) Representative α-SMA staining photomicrographs of pulmonary vessels. Scale bar=25μm. (E) Representative EVG staining photomicrographs. (F) Effect of resveratrol on PASMCs apoptosis. Representative TUNEL staining photomicrographs of pulmonary vessels from each group. Scale bar=50μm.

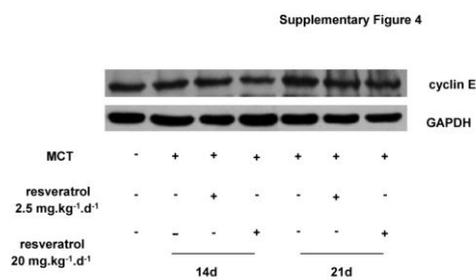


Figure S4. Expression of Cyclin E has no remarkable change in lungs of PAH rats.

Cyclin E protein level in lungs of PAH rats was detected by western blotting.