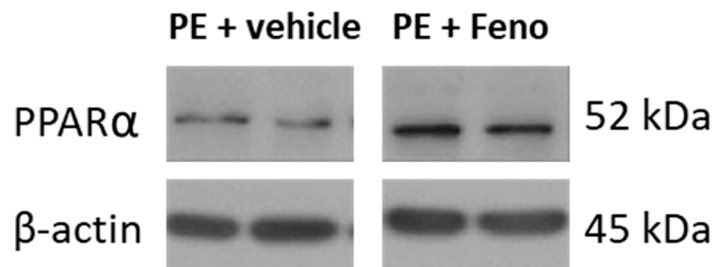


**Supplementary Figure 1. Canonical pathway analysis of differentially expressed genes using IPA.** Significantly enriched pathways in Nox2<sup>-/-</sup> TAC vs WT TAC mice (grey indicates that no activation z-score could be predicted by IPA). N=3-4.



**Supplementary Figure 2. Fenofibrate treatment activates PPAR in H9c2 cardiomyocytes.** Cells were incubated with vehicle or the PPAR $\alpha$  agonist fenofibrate (10 $\mu$ mol/L) prior to PE treatment for 24h and PPAR $\alpha$  protein expression analysis by western blot.