

Supplementary Figure Legends

Supplementary Figure 1. The expression levels of miRNAs in TNF α induced necrotic cell death in cardiomyocytes.

A. Upregulated miRNAs upon TNF α treatment. Cardiomyocytes were treated with 10 ng/ml human TNF α for 24 hr. The expression levels of miRNAs were analyzed by qRT-PCR. **B.** qRT-PCR analysis of miR-874. Cardiomyocytes were treated with 10 ng/ml human TNF α at the indicated time, and the expression level of miR-874 was analyzed. * p <0.05 vs control.

Supplementary Figure 2. The RIPK1/RIPK3 is involved in H₂O₂ induced necrotic cell death.

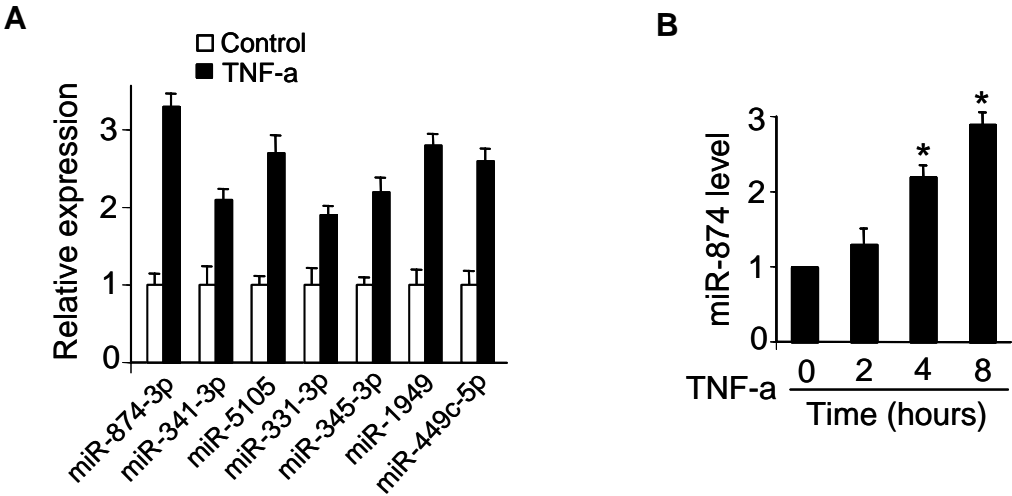
A and C. The expression levels of RIPK1 or RIPK3 upon H₂O₂ treatment. Cardiomyocytes were treated with H₂O₂ at the indicated time, and the expression of RIPK1 or RIPK3 was analyzed by western blot. **B and D.** Knockdown of RIPK1 or RIPK3 can attenuate H₂O₂ induced necrotic cell death. Cardiomyocytes were infected with adenovirus RIPK1-siRNA (B) or RIPK3-siRNA (D) and their scramble form (RIPK1-sc or RIPK3-sc), then exposed to H₂O₂. Cells were harvested at 48h after treatment for the analysis of RIPK1 or RIPK3 levels and PI exclusion. * p <0.05 vs H₂O₂ alone.

Supplementary Figure 3. Foxo3a KO mice exhibit increased I/R injury.

WT and Foxo3a KO mice were subjected to I/R as described in methods. **A.** Caspase-8 level were analyzed by western blot. **B.** Foxo3a KO mice increased myocardial infarction

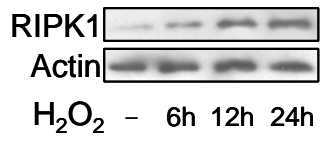
upon I/R. * $p < 0.05$ vs WT+I/R. C. SDS-soluble lysates were immunoblotted with antibody specific for the N-terminus of CYLD; the unprocessed CYLDp107 and the CYLDp25 cleavage product generated from the endogenous CYLD protein were shown.

Supplementary Figure 1

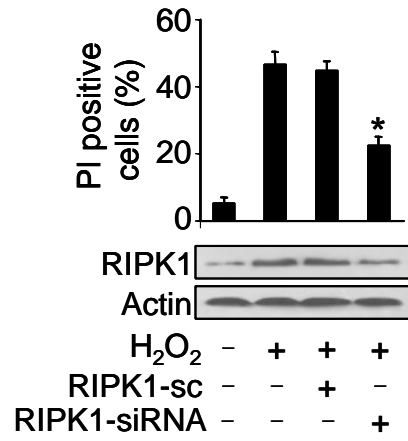


Supplementary Figure 2

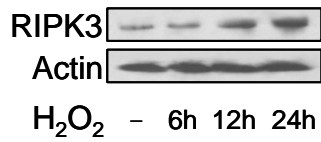
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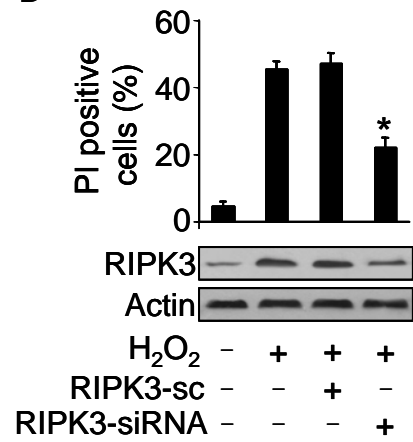
B



C

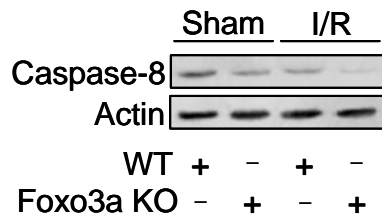


D

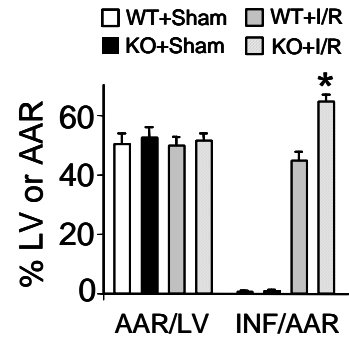


Supplementary Figure 3

A



B



C

