

Supplementary Materials: MicroRNA-Mediated Down-Regulation of ASK1 Attenuates the Apoptosis of Human MSCs Transplanted into Infarcted Heart

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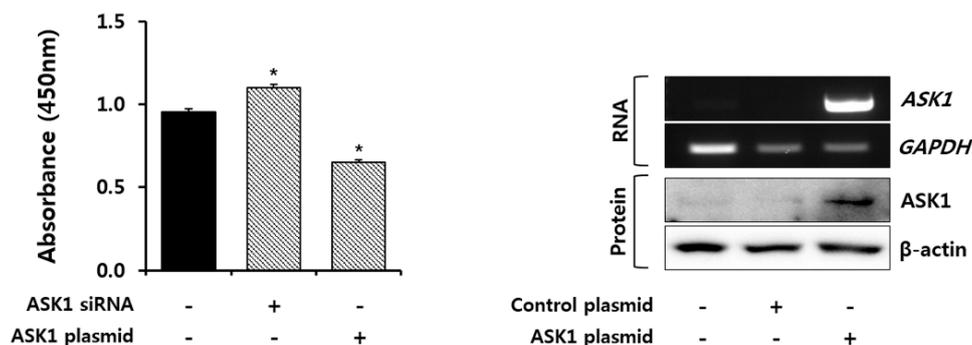


Figure S1. (Left) The cell viability was measured by CCK-8 assay after transfection using ASK1 siRNA or ASK1 plasmid for 24 h. (* $p < 0.001$ vs. Control); (Right) ASK1 mRNA and protein expressions were measured by RT-PCR and immunoblot after ASK1 plasmid transfection.

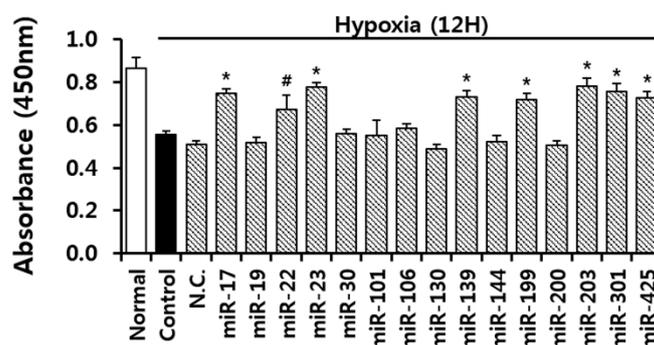


Figure S2. Effect of selected overexpressed miRNAs on hASCs survival under hypoxic conditions was evaluated by the CCK-8 assay. All samples were exposed to hypoxic conditions at 12 h after miRNA transfection. (# $p < 0.05$, * $p < 0.001$ vs. Control).

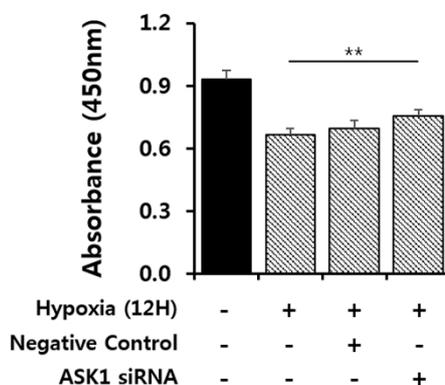


Figure S3. The cell viability was measured by CCK-8 assay followed by ASK1 siRNA transfection. (** $p < 0.01$).

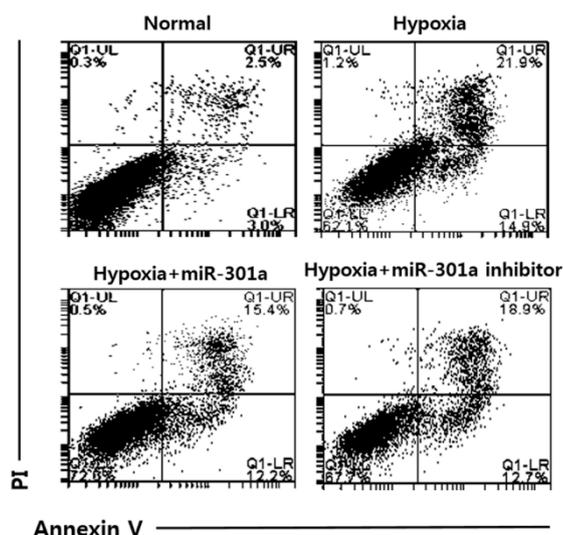


Figure S4. Annexin V/PI assay was applied to hASCs in various conditions: normal, hypoxia, hypoxia with miR-301a mimic, and hypoxia with miR-301a mimic and inhibitor.

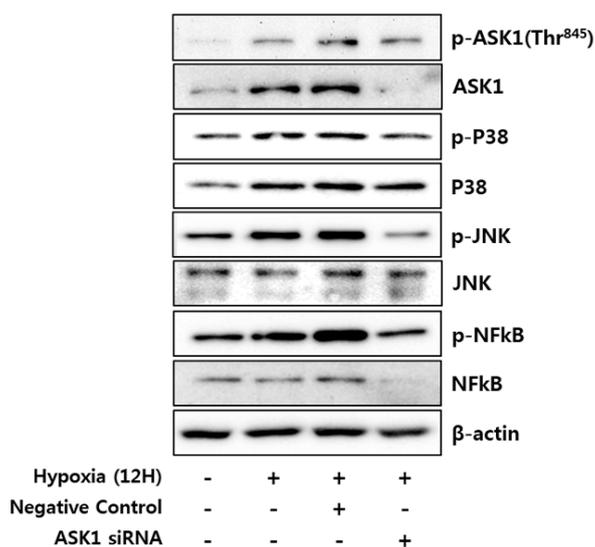


Figure S5. ASK1-downstream molecules were measured by immunoblot followed by ASK1 siRNA transfection under hypoxic conditions.

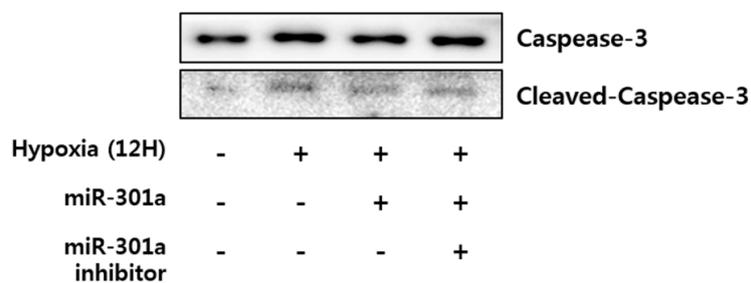


Figure S6. The levels of caspase-3 were detected by immunoblot.