Inhibition of Bif-1 confers cardio-protection in myocardial infarction

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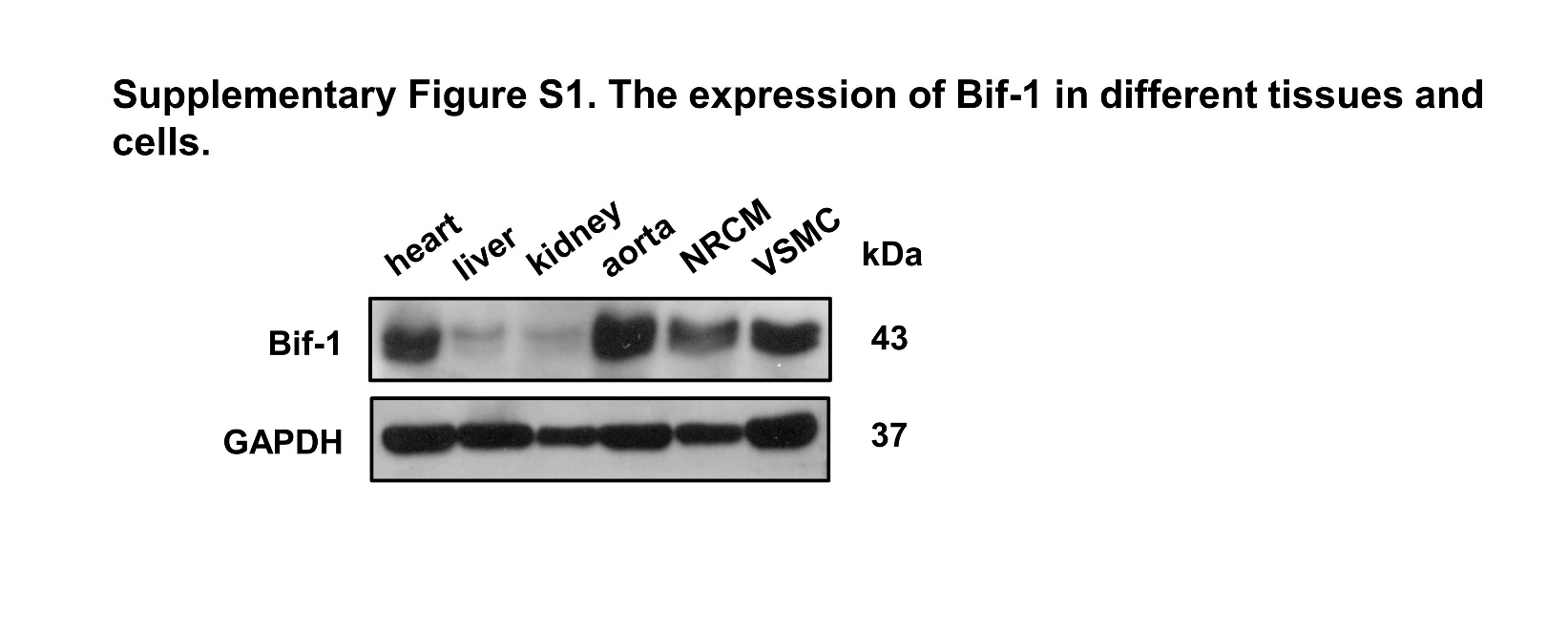
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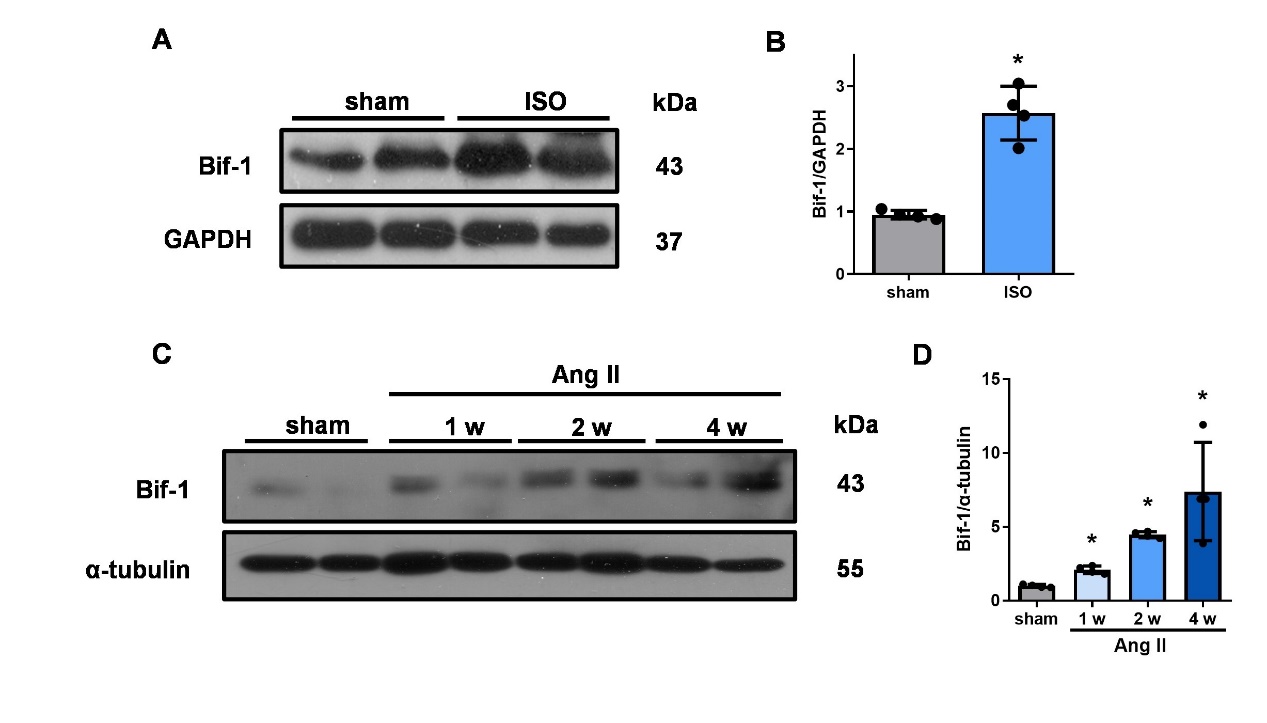
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**SUPPLEMENTAL MATERIAL**

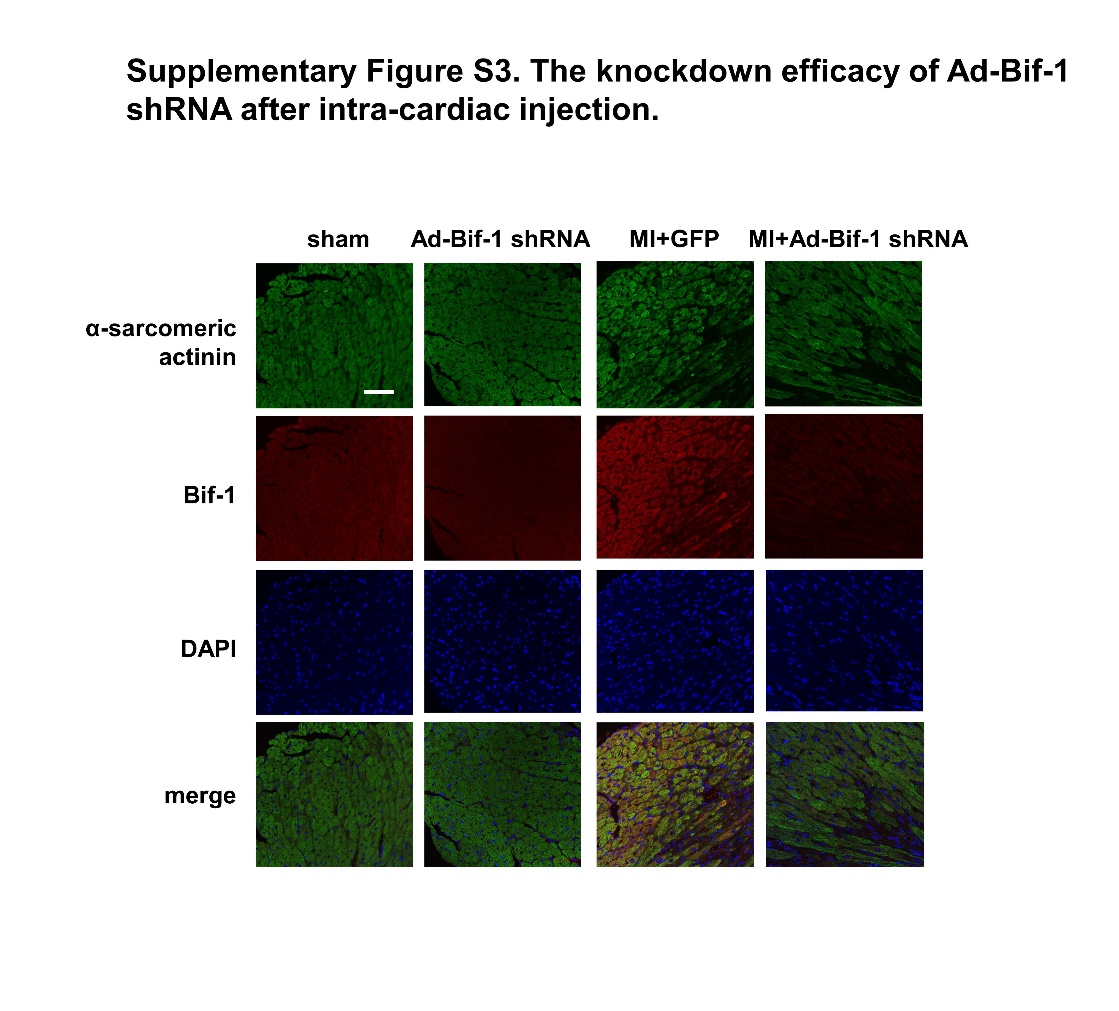
*Supplementary Figure*



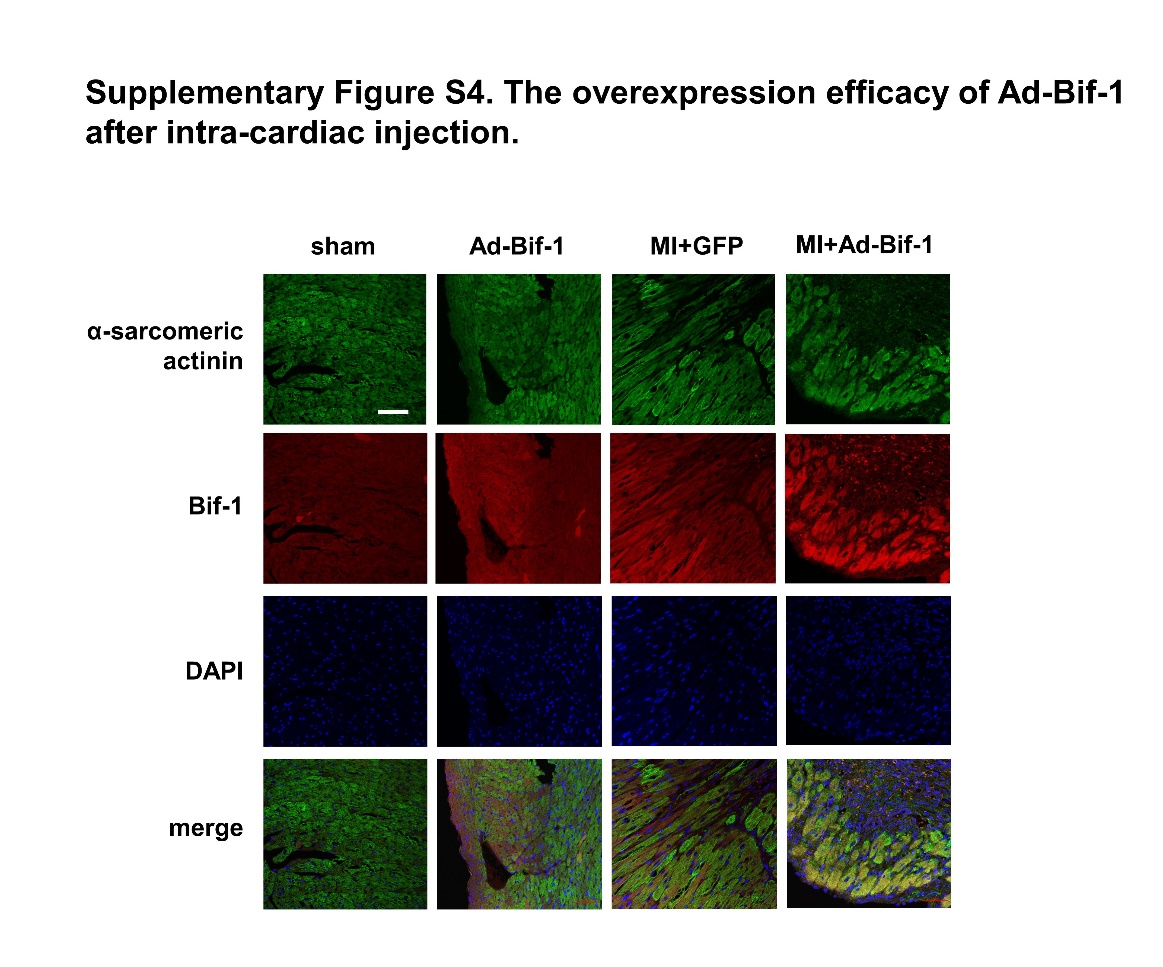
**Supplementary Figure S1.** The expression of Bif-1 in different tissues and cells. Representative images of western blots of Bif-1 expression in different tissue and cells.

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**Supplementary Figure S2.** The expression of Bif-1 in the hearts of cardiac hypertrophy mice. **(A-B)** Representative images and quantification of western blots of the isoproterenol (ISO) treated heart (n = 4, \*P < 0.05 vs. sham). **(C-D)** Representative images and quantification of western blots of the angiotensin II (AngII) treated heart (n = 4, \*P < 0.05 vs. sham).



**Supplementary Figure S3.** The knockdown efficacy of Ad-Bif-1 shRNA after intra-myocardial injection. Representative images of immunofluorescence (IF) staining of heart tissue sections of sham and MI mice (scale bar: 50 µm, n = 6).



**Supplementary Figure S4.** The overexpression efficacy of Ad-Bif-1 after intra-myocardial injection. Representative images of immunofluorescence (IF) staining of heart tissue sections of sham and MI mice (scale bar: 50 µm, n = 6).



**Supplementary Figure S5.** Hierarchical clustering of differentially expressed genes in infarct border zone of Ad-Bif-1 shRNA injection or GFP injection mouse hearts as assessed by RNA-seq (adjusted P < 0.05).



**Supplementary Figure S6.** Volcano plot of Hierarchical clustering of differentially expressed genes in infarct border zone of Ad-Bif-1 shRNA injection or GFP injection mouse hearts (Log2Fold Change>1, adjusted P <0.05).