

**Asiatic Acid Protects against Cardiac Hypertrophy through Activating
AMPK α Signalling Pathway**

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SUPPLEMENTAL MATERIAL

Table S1: Primer Sequences used for RT-PCR

Gene	Species		Sequence (5'-3')
GAPDH	Mouse	Forward	ACTCCACTCACGGCAAATTC
		Reverse	TCTCCATGGTGGTGAAGACA
GAPDH	Rat	Forward	GACATGCCGCCTGGAGAAAC
		Reverse	AGCCAGGATGCCCTTAGT
ANP	Mouse	Forward	ACCTGCTAGACCACCTGGAG
		Reverse	CCTTGGCTGTTATCTTCGGTACCGG
ANP	Rat	Forward	AAAGCAAAGCTGAGGGCTCTGCTCG
		Reverse	TTCGGTACCGGAAGCTGTTGCA
β -MHC	Mouse	Forward	CCGAGTCCCAGGTCAACAA
		Reverse	CTTCACGGGCACCCTTGA
BNP	Mouse	Forward	GAGGTCACTCCTATCCTCTGG
		Reverse	GCCATTCCTCCGACTTTTCTC
Collagen I	Mouse	Forward	TGGTACATCAGCCCGAAC
		Reverse	GTCAGCTGGATAGCGACA
Collagen III	Mouse	Forward	GTCAGCTGGATAGCGACA
		Reverse	GAAGCACAGGAGCAGGTGTAGA
TGF- β	Mouse	Forward	TGCGCTTGCAGAGATTA AAA
		Reverse	CGTCAAAGACAGCCACTCA
CTGF	Mouse	Forward	TGTGTGATGAGCCCAAGGAC
		Reverse	AGTTGGCTCGCATCATAGTTG
Fibronectin	Mouse	Forward	CCGGTGGCTGTCAGTCA GA
		Reverse	CCGTTCCCACTGCTGATTTATC

SUPPLEMENTAL FIGURES AND FIGURE LEGENDS:

Figure S1A-B

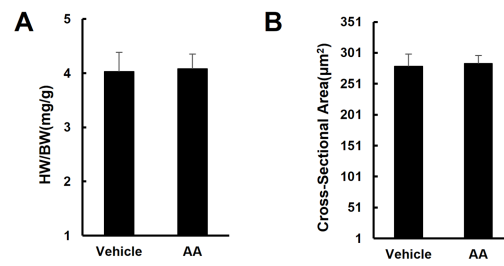


Figure S1A-B. Effects of asiatic acid (AA) on the heart at baseline. A, Statistical results of heart weight (HW)/ body weight (BW) in the indicated groups (n=5). B, The cross-sectional areas of myocytes (n=5).

Figure S2

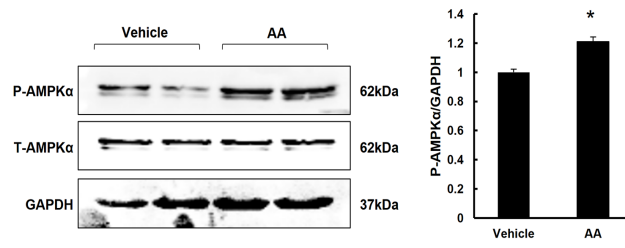


Figure S2. Effects of asiatic acid (AA) on AMPK α at baseline in the heart. * $P < 0.05$ versus matched control.

Figure S3A-B

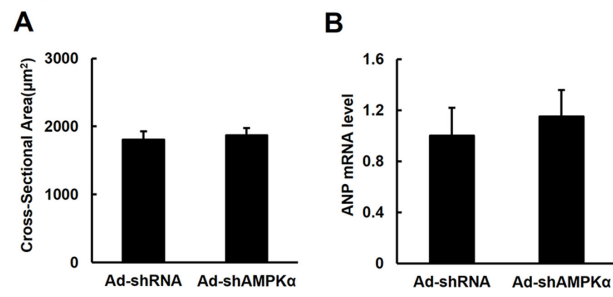


Figure S3A-B. Effects of Ad-shAMPK α on hypertrophy of myocytes at baseline. A, Cross-sectional area after Ad-shAMPK α infection (n=6). B, ANP mRNA level after Ad-shAMPK α infection (n=6).

Figure S4A-B

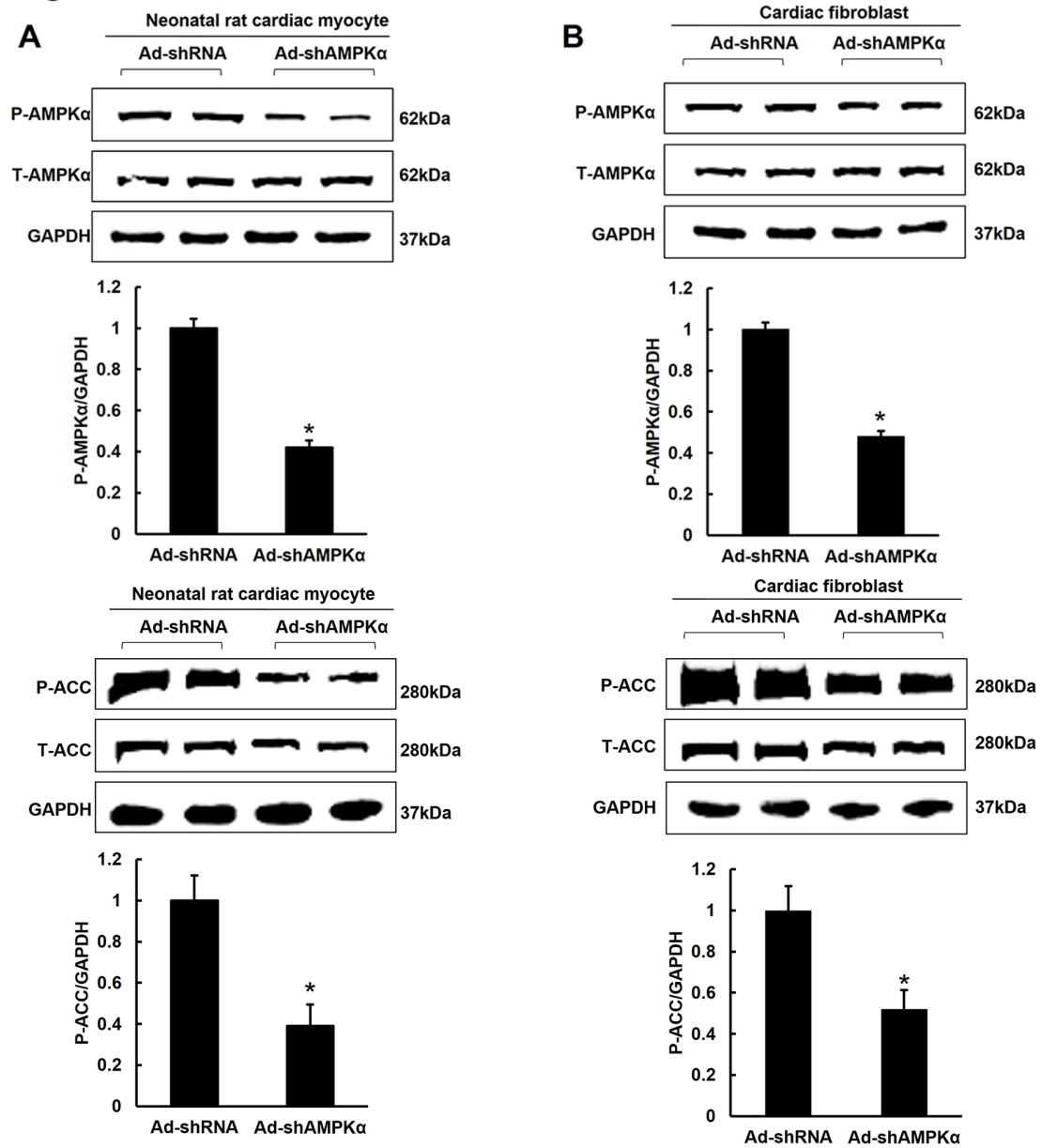


Figure S4A-C. AMPK α and ACC after Ad-shAMPK α infection. A, The protein levels of AMPK α and ACC after adenovirus infection in neonatal rat cardiac myocytes (n=6). B, The protein levels of AMPK α and ACC after adenovirus infection in cardiac fibroblasts (n=6). * P <0.05 versus matched control.