SUPPLEMENTARY DATA

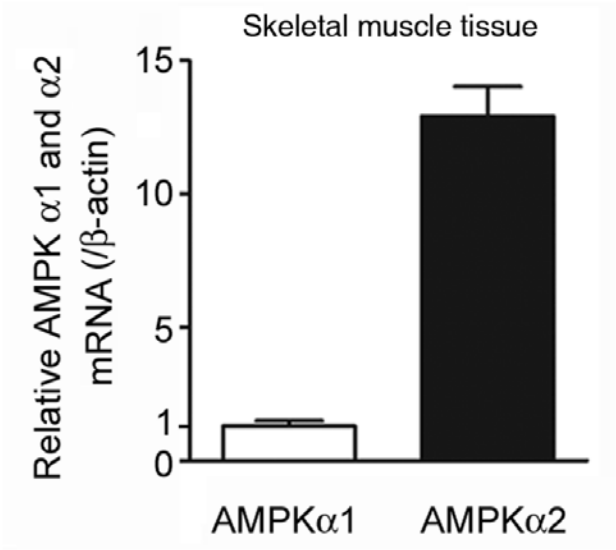
Supplementary Table 1. Primer Sequences and GenBank No.

Gene	Primer Sequence	GenBank No.
AMPKα2	Sense: TGGCAGCACTTTGTCCTCG	NM_178143
	Anti-sense: CAGCGGGTTCGTTCATCAG	
PP2C	Sense: TGTCAATGGCTCTCTGGCTGTATC Anti-sense: ACACTCATGTTGTCTCGACTTCCC	NM_178726
PP2A	Sense: CCTCTTGTCATCAACAGCCGTG Anti-sense: GCAGGAAGAACCCACAAAGTG	NM_019411
β-actin	Sense: TGCTGTCCCTGTATGCCTCTG	NM_007393
	Anti-sense: GCTGTAGCCACGCTCGGTC	

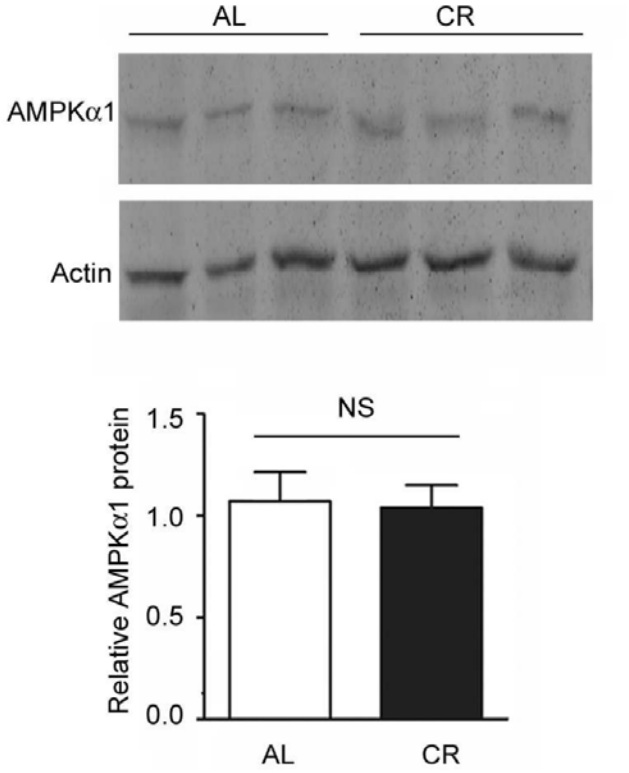
SUPPLEMENTARY DATA

Supplementary Figure 1. A: The relative mRNA levels of AMPKα1 and AMPKα2 subunits in skeletal muscle in mice were determined by real-time PCR. The AMPKα2 is the dominant subunit in skeletal muscle. **B:** Two months of CR did not increase AMPKα1 protein level. NS, no significance.

A

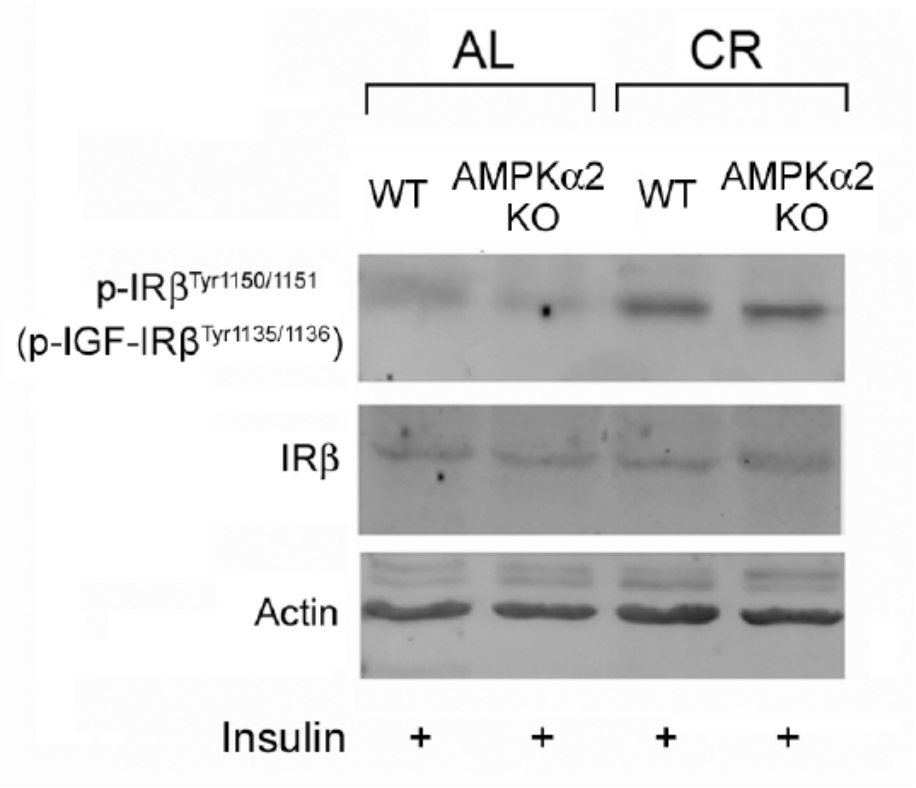


B

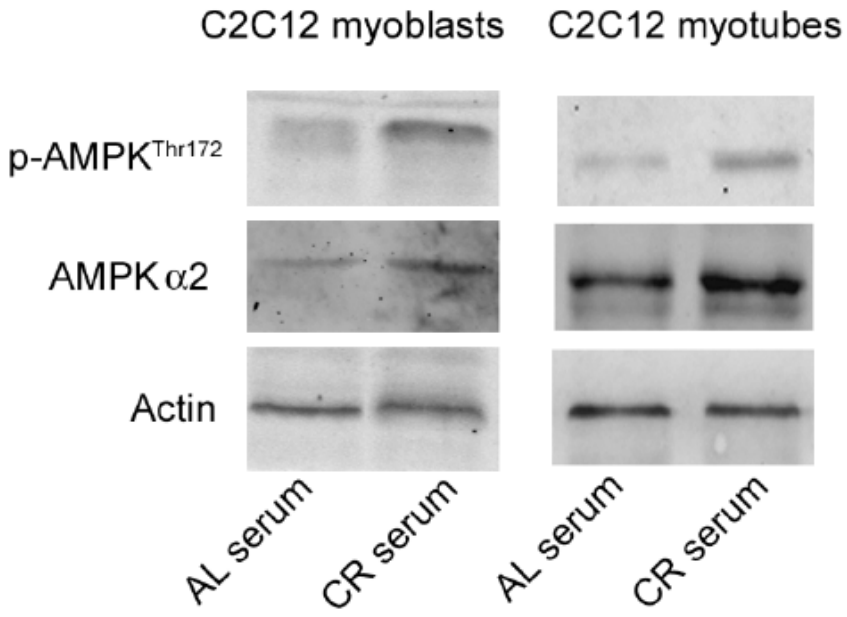


SUPPLEMENTARY DATA

Supplementary Figure 2. CR-induced increase of phosphorylation of insulin receptor (IR) β subunit$^{Tyr1150/1151}$ (insulin-like growth factor-1 receptor [IGF-1R] β subunit$^{Tyr1135/1136}$) was not affected in AMPKα2 mice.

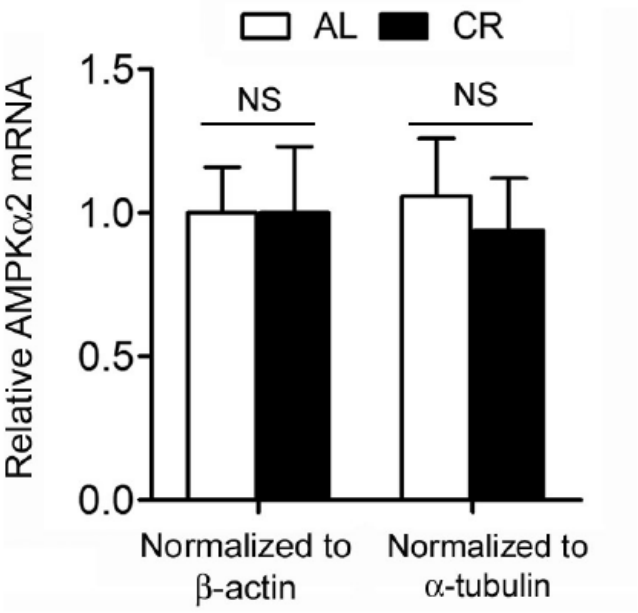


Supplementary Figure 3. CR serum increased the total AMPKα2 and phospho-AMPKα2 in cultured C2C12 cells.

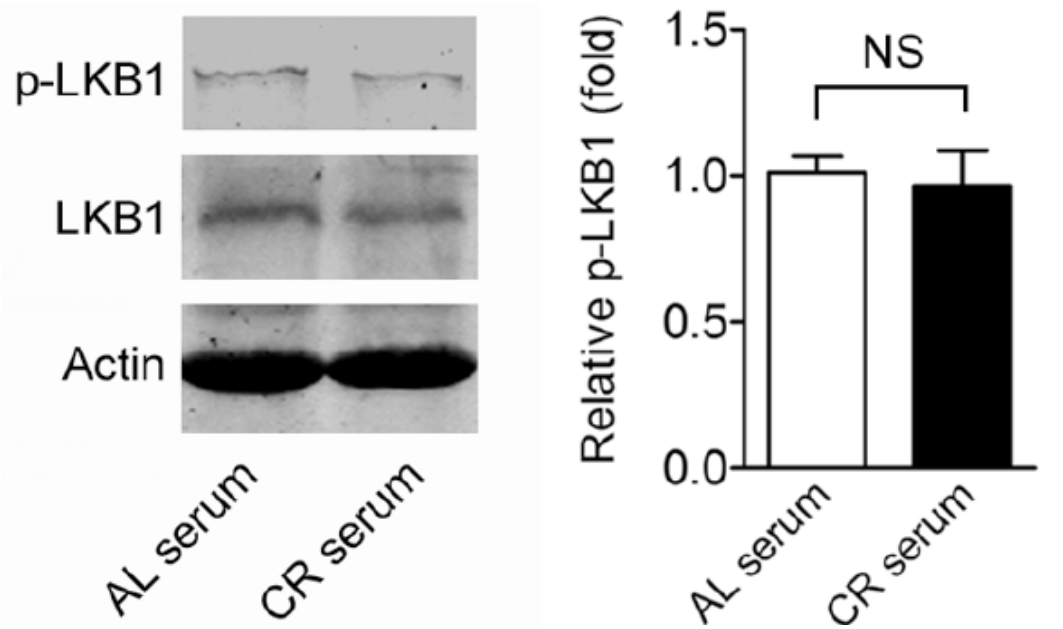


SUPPLEMENTARY DATA

Supplementary Figure 4. Two months of CR did not increase AMPKα2 mRNA level. NS, no significance.



Supplementary Figure 5. Treatment of C2C12 cells with CR serum did not alter the phosphorylation of LKB1, a major upstream kinase of AMPKα2.



SUPPLEMENTARY DATA

Supplementary Figure 6. Treatment of C2C12 cells with CR serum did not alter the mRNA expression (**A and B**) and activities (**C and D**) of PP2A and PP2C, two kinds of AMPKα2 phosphatase.