

Supplement

Supplement 1

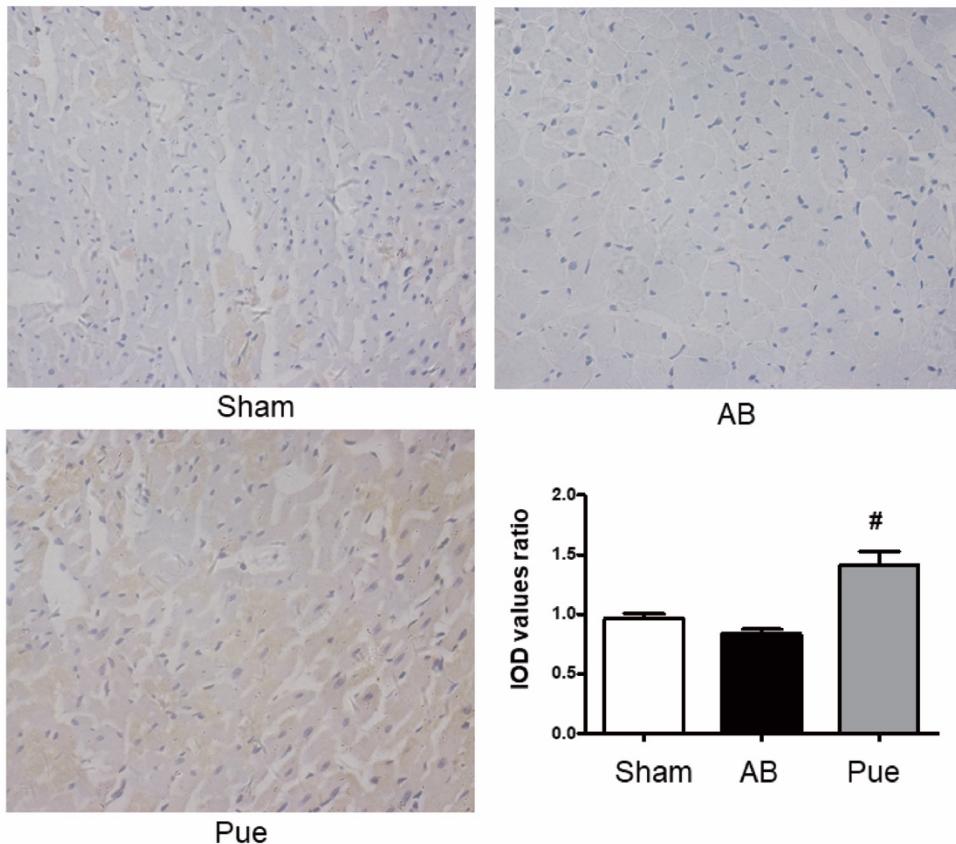


Fig S1 Immunohistochemical staining for Nrf2 in sections of animal tissue. [#]P < 0.05 vs. AB group.

Supplement 2

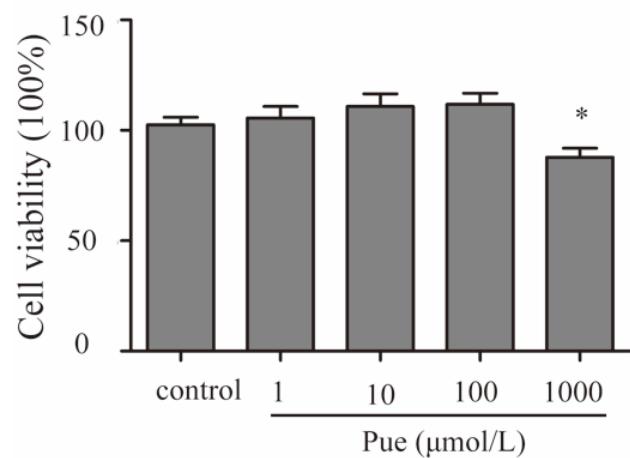


Fig. S2 The CCK-8 assay was used to detect proliferation of neonatal rat cardiac fibroblasts (NRCF), so as to evaluate the toxicity of puerarin. *P < 0.05 vs. control, Pue 1 μ mol/L, Pue 10 μ mol/L, and Pue 100 μ mol/L.

Supplement 3

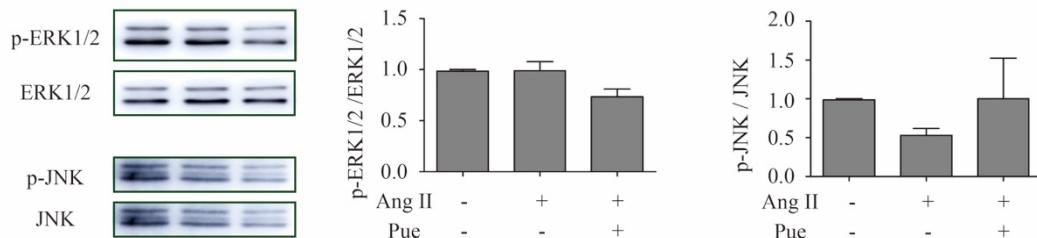


Fig. S3 Neither ERK1/2 nor JNK regulates the effects of puerarin in protecting against cardiac fibrosis in vitro. Ang II, 1 μ M; puerarin, 100 μ M. n = 6 for each group.

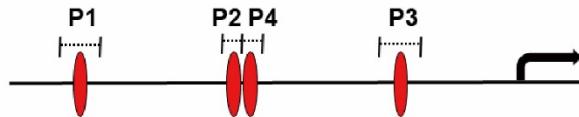
Supplement 4



Fig. S4 The primitive strip of nuclear Nrf2 corresponding to Figure 6A.

Supplement 5

A



P1: >chr9:95293415-95293517 103bp
 CTGCAAGAAGTCTGAGGTAAACACACTGTCCTGC **TTTGATTGTGACCCCTGCATT**
CCATCTCCAGCACCGTATGTGAAAAGAGCTCAGGGTTTGAGTGATGACA

P2: >chr9:95294598-95294695 98bp
 CACTGTCTCTGAGGGAGCTCTGGAGAGGACTCGTGTCTACA **GACCCAT**
GTGACTCTGCCTTCTGGTCATTTCTACCCCAGCCCCATTCTATTGC

P3: >chr9:95295797-95295893 97bp
 CCATGCTGGGAAGCTGTTAGTGTATCCCCATAGATGGCAGCCACTGGCTGAG
 TATGCTC **GGAGTTATTCAAGCAGCTCCAGCA**AAAGGGGCACGAAGTG

P4: >chr9:95294695-95294810 116bp
 CATCCTCAAAGGGCCTGATTATCAGTTCCAGCTGAGAGCCAATCTGTC **TT**
GACAGCTGAGTCCGGAAAGGCAGGGCACTCCTCTGTGCTGGTCTCAGCT
 GCCATCTTGAAACC

B

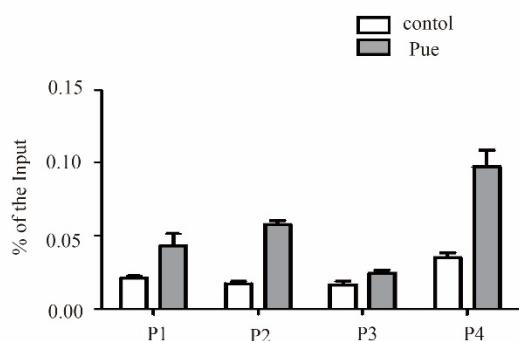


Fig. S5 The combination of transcription factor Nrf2 with the target gene promoter region P1 region, P2 region, P3 region, and P4 region in the control group and puerarin treatment group, respectively. A: Different binding sites in *Ugt1a1* promoter. B: In Vivo characterization of Nrf2 binding to the *Ugt1a1* promoter by ChIP assay.

Table S1

| Region | Primer of <i>Ugt1a1</i> |
|--------|---|
| P1 | <i>Ugt1a1</i> -F: 5'-CTGCAAGAAGTCTGAGGTAAACACAC-3' <i>Ugt1a1</i> -R: 5'-TGTCACTCACTAAAAACCTGAGC-3' |
| P2 | <i>Ugt1a1</i> -F: 5'-CACTGTCTCTGAGGGAGCTCTTG-3' <i>Ugt1a1</i> -R: 5'-GCAAATGAATGGGCTGGGGTAG-3' |
| P3 | <i>Ugt1a1</i> -F: 5'-CCATGCTGGGAAGCTGTTAGTGATC-3' <i>Ugt1a1</i> -R: 5'-CACTTCGTGCCCTTTGCTG-3' |
| P4 | <i>Ugt1a1</i> -F: 5'-CATCCTCAAAGGGCCTGATTAT-3' <i>Ugt1a1</i> -R: 5'-GGTTCAAGATGGCAGCTGAG-3' |

Table S1 the primer of *Ugt1a1* for different region