### Supplementary Table and Figures

**Table S1.** PCR primer sequence, siRNA sequence, Agomirs and Antagomirs sequence

<table>
<thead>
<tr>
<th>Name</th>
<th>Sequences (5'-3')</th>
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</table>
| p66Shc mRNA for mouse         | Forward: GTCCGACTACCTGTGTTCCTT  
Reverse: CAGCAGGATTGCGCCAGCTT   |
| p66Shc mRNA for human         | Forward: GAGGCCATCATCTGTTGTTGT  
Reverse: GCTGGTGGAGACGATGAGA    |
| PRKCB mRNA for mouse          | Forward/convergent F: GCCATGATTCGTCACGTTC  
Reverse/convergent R: TGAACATCTCTGTTCAGTG  |
| PRKCB mRNA for human          | Forward: ATCGCCCCCGAGATAATGGC  
Reverse: GGATGCGGGGTTGAAAAAATCG |
| β-actin mRNA for mouse        | Forward/convergent F: AGAGGGAAATCGTGACCTG  
Reverse/convergent R: CAATAGTGAGACCTGGCCGT |
| β-actin mRNA for mouse        | Forward/divergent F: ACGCCAGGTCATCATATTG  
Reverse/divergent R: GTCACGCAGATTTCCTCT |
| β-actin mRNA for human        | Forward: ACCCTGAAGTACCCCACTGAG  
Reverse: ACATGATCTGGACATGAGTGG |
| circ-PRKCB for mouse          | Forward/divergent F: CACATCGCAGAGAGGTCTCA  
Reverse/divergent R: GAACGTGACGAACTCATGGC |
| circ-WDR37 for mouse          | Forward: GACAGAATGCTCCATCGAG  
Reverse: GGAAACATTACGGAGCATG |
| circ-MGA for mouse            | Forward: CAAAATCAAGGAGATGAGAG  
Reverse: TTAAGATCAATGCTCATGGTG |
| circ-PRKCB for human          | Forward: GCCGCATCTACATCCAGG  
Reverse: TGCAACCAAGGACAGCAA |
| p66Shc siRNA                  | AUGAGUCUCUGUCAUCGCTT  
AGCAGAUGACACGUUCGAGGAAAA  
ACGUGACACGUCGCGAGAAATC |
| negative control siRNA        | UUCUCCGAGUCUGUCAUGUTT  
ACGUGACACGUCGCGAGAAATT |
| circ-PRKCB siRNAs             | Provided by Ribobio  
miR-339-5p agomir              | UCCCUUCGUCCCAGGAGCACGAG  
UGAGCUCCUCCAGGACGAGGAAUU |
| negative control agomir       | UUCUCCGACGUGUCAUGUTT  
ACGUGACACGUCGCGAGAAATT |
| miR-339-5p antagomir          | CGUGAGUCUCCUGAGGAGCAGGGA |
| negative control antagomir    | CAGUACUUUUGUGUAGUACAA |
Figure S1. circ-PRKCB gene homology comparison.

circ-PRKCB homology between the human and mouse genomes was analyzed using the BLAST.
Figure S2. circ-PRKCB regulates H/R-induced oxidative stress through targeting p66Shc.

Caco-2 cells were cotransfected with circ-PRKCB siRNA or pcDNA-p66Shc and then exposed to H/R. (A) Fluorescence quantification of MitoSOX-stained cells. (B) MnSOD, catalase and NOX2 protein expression (n=3). *P<0.05, **P<0.01. The values represent the mean ± SD.