Supplementary Figure 1

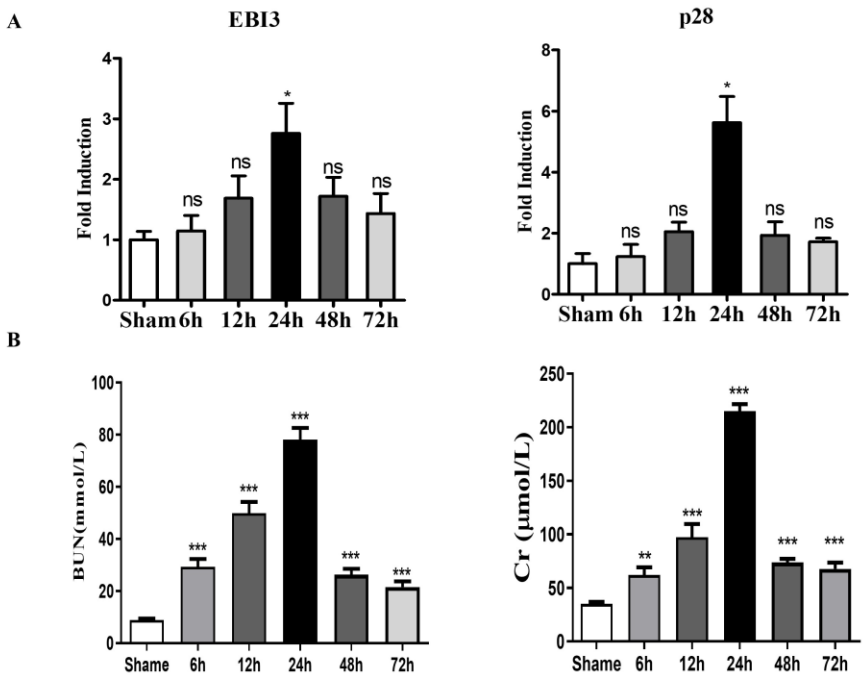

Figure S1 | IL-27 is upregulated in post-ischemic kidney. (A) Real-time polymerase chain reaction (RT-PCR) was used to examine fold changes of EBI3 and p28 mRNA expression in sham operated and IR kidney at 6 h, 12 h, 24 h 48 h and 72 h post-IR induction. (B) Blood urea nitrogen (BUN) and serum creatinine (SCr) levels were assessed at 6 h, 12 h, 24 h, 48 h and 72 h post-IR induction. **P* < 0.05, ***P*<0.01, ****P*<0.001, ns, not significant, compared with sham-operated. Similar results were obtained in 3 independent experiments with 6 to 7 mice per group

Supplementary Figure 2

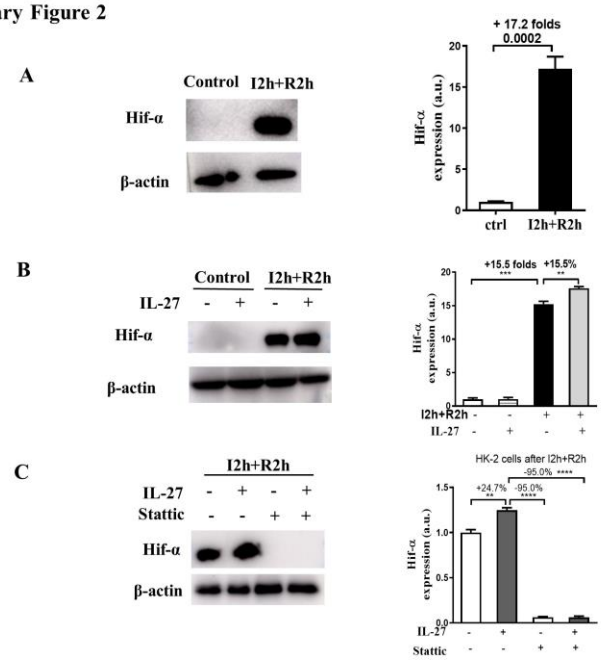

Figure S2 | Hif-α increased after I2h+R2h treatment and IL-27 treatment through STAT3 signaling. (A) Representative Western blot images of Hif-α and β-actin in HK-2 cells after I2h+R2h treatment and densitometric analysis of Hif-α were shown. (B) Representative Western blot images of Hif-α and β-actin in HK-2 cells after I2h+R2h treatment and IL-27 treatment . And the densitometric analysis was shown on the right. (C) The expression of Hif-α in I2h+R2h treated HK-2 cells were assessed after IL-27 and STAT3 inhibitor Stattic treatment. Densitometric analysis of Hif-α was shown on the right. Values were expressed as relative expression. Data are expressed as means ± SEM of more than three independent experiments in triplicate culture. **P* < 0.05, ****P*<0.001, *****P*<0.0001.

Supplementary Figure 3

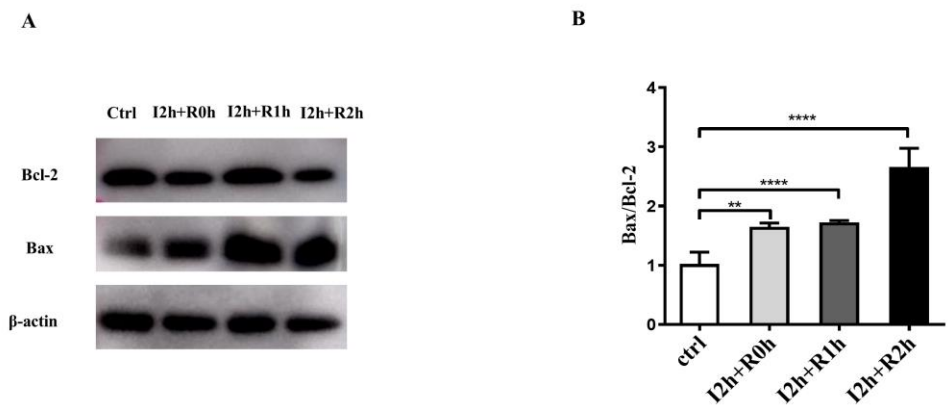

Figure S3 | The ratio of Bax/Bcl-2 increased in a reperfusion time depend manner. HK-2 cells were exposed to ischemia for 2 h following reperfusion for 0 to 2 h to collect whole cell lysates for western blot analysis of Bax, Bcl-2 and β-actin. (A) Representative blots. (B) Assessment of Bax/Bcl-2. Data are expressed as means ± SEM of more than three independent experiments in triplicate culture. ***P*<0.01, *****P*<0.0001.