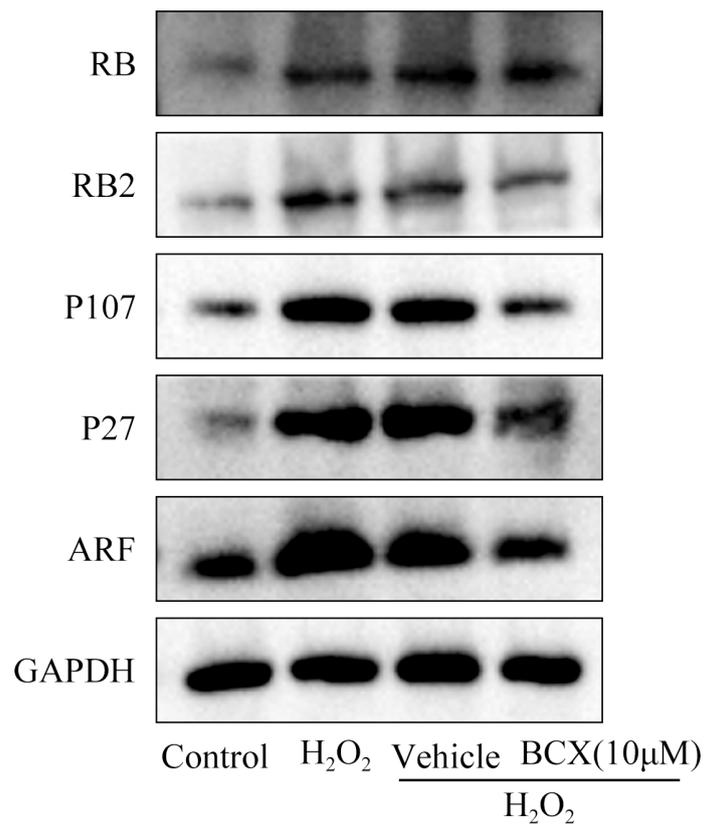
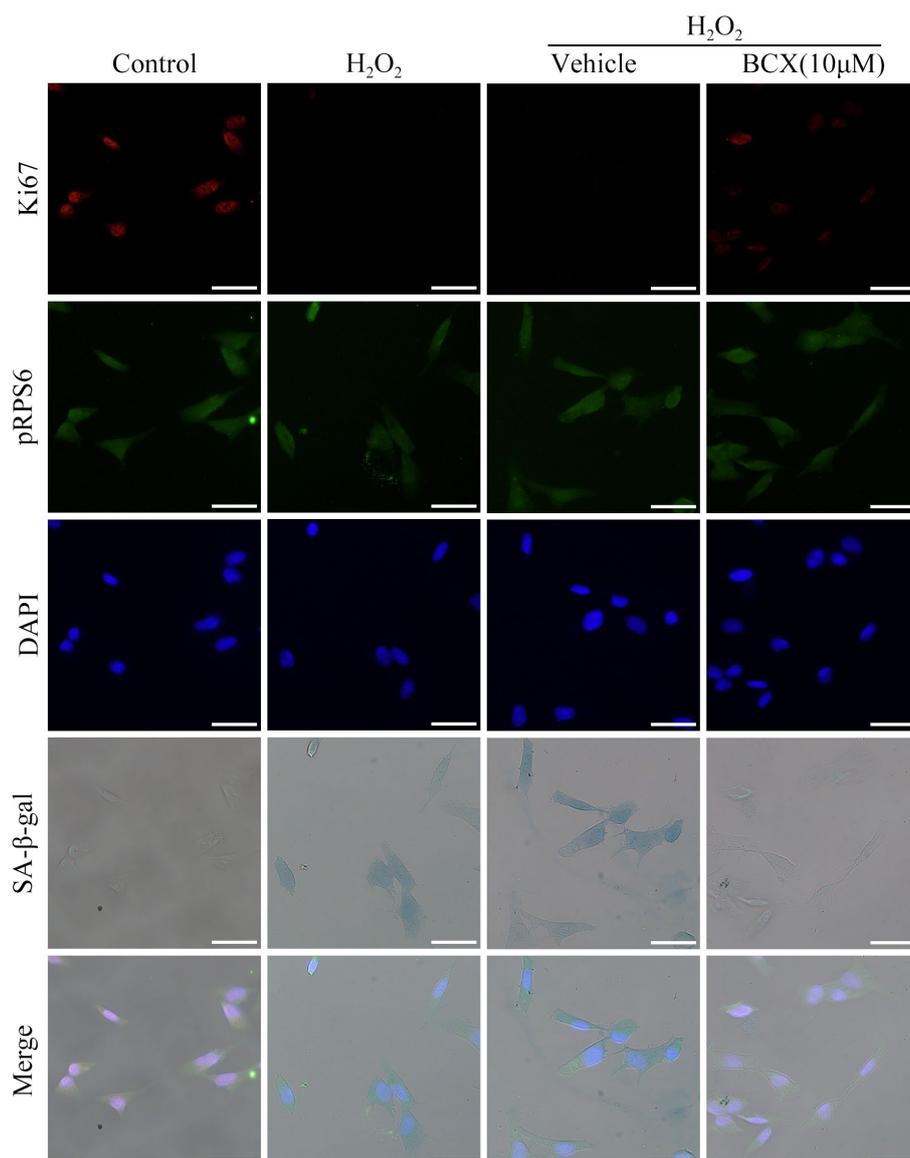


**Supplementary Figure S1. The expression levels of senescence-related proteins.** HK-2 cells were treated with 800  $\mu\text{M}$   $\text{H}_2\text{O}_2$  for 12, 24, and 48 h. Western blot detection of protein expression of senescence-related proteins RB, RB2, P107, P27, and ARF.



**Supplementary Figure S2. The expression levels of senescence-related proteins.** After pretreatment with BCX (10 µM) for 24 h, HK-2 cells were treated with 800 µM H<sub>2</sub>O<sub>2</sub> for 48 h. Western blot detection of protein expression of senescence-related proteins RB, RB2, P107, P27, and ARF.



**Supplementary Figure S3. The representative images of Ki67, pRPS6, DAPI, and SA-β-galactosidase.** After pretreatment with BCX (10 μM) for 24 h, HK-2 cells were treated with 800 μM H<sub>2</sub>O<sub>2</sub> for 48 h. SA-β-galactosidase staining was first performed on HK-2 cells. Then the expression of Ki67 and pRPS6 was detected by immunofluorescence technique. Scale bar = 40 μm.