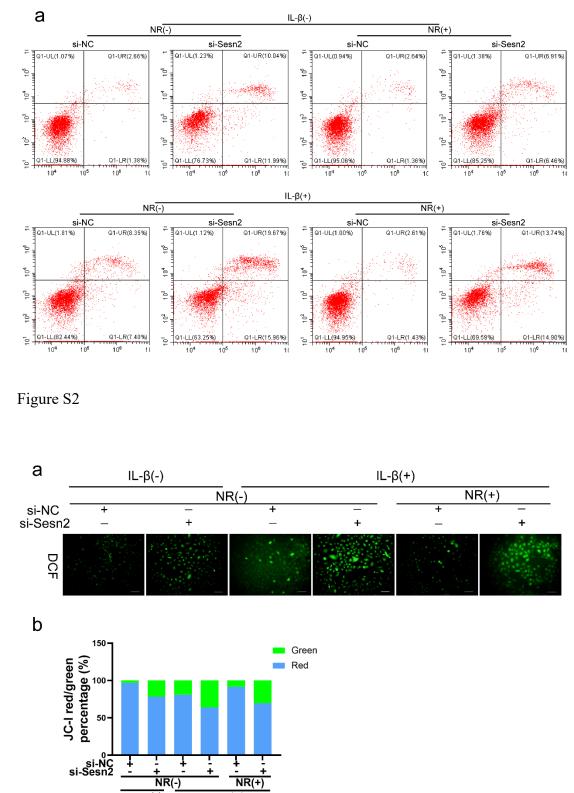
- 1 Supplementary Figure 1 (a) Flow cytometry to NP cell apoptosis (n = 3).

Supplementary Figure 2 (a) ROS assay kit was used to detect ROS production in NP cells. (b) JC-1 assay kit were used to detect mitochondrial membrane potential in NP cells. NP cells were transfected with si-NC or si-Sesn2, treated with 0 ng/ml and 20 ng/ml IL-1ß for 48h and then treated with 0 and 1 mM NR for 6h. Statistical significance was analyzed by one-way ANOVA followed by a post hoc Tukey's test. All data were presented as mean \pm SEM (error bars). *p < 0.05; **p < 0.01; ***p<0.001. **Supplementary Figure 3** (a) Flow cytometry to NP cell apoptosis (n = 3). Supplementary Figure 4 (a) Western blot to Sesn2 and β -actin in WT, Sesn2+/- and Sesn2-/- mice (n = 3). (b) The quantitative analysis of Sesn2 protein expression was showed. (c) Mitophagy markers including Pink1, Parkin, Sqstm1, LC3 and β -actin (n = 3) protein expression were confirmed by Western blot. (d) The quantitative analysis of Pink1, Parkin, Sqstm1 and LC3-II protein expression was showed. (e) Western blot to Cleaved-caspase 3, Cleaved-caspase 9, Pink1, Parkin, Sqstm1 and β-actin. Littermates was divided into six WT and twelve Sesn2-/- mice as indicated. Twelve Sesn2-/- mice was divided randomly into six Sesn2-/- and four Sesn2-/- + Lenti-Sesn2 group as indicated. (f) The quantitative analysis of Cleaved-caspase 3, Cleaved-caspase 9, Pink1, Parkin and Sqstm1 protein expression was showed. Statistical significance was analyzed by one-way ANOVA followed by a post hoc Tukey's test. All data were presented as mean \pm SEM (error bars). *p < 0.05; **p < 0.01; ***p<0.001.

3435 Figure S1



IL-1β(-)

IL-1β(+)

