SUPPLEMENTARY FIGURES



Supplementary Figure 1. Identification of PMVECs and hypoxia. (A) The expression of CD31 in PMVEC was detected by immunofluorescence assay (magnification, 200 ×; scale bar = 25 μ m). (B) RT-qPCR to detect the expression of HIF-1 α and PDK1 in PMVECs exposed to normoxia or hypoxia for a different period (2, 4, 8 h). Measurement data are expressed as mean ± standard deviation. Changes between multiple groups were compared using one-way ANOVA and Tukey's multiple comparison test. * p < 0.05. The cell experiments were repeated three times.



Supplementary Figure 2. Detection of autophagy and injury of H/R-treated PMVECs. (A) Flow cytometry to detect the apoptosis of PMVECs exposed to hypoxia for a different period (0, 2, 4, 8 h). (B) Western blot to detect the expression of Beclin-1, LC3-II/LC3-I in PMVECs exposed to hypoxia for different periods (0, 2, 4, 8 h). (C) mRFP-GFP-LC3 dual fluorescence system was used to trace autophagy formation in PMVECs exposed to hypoxia for different periods (0, 2, 4, 8 h).



Supplementary Figure 3. (A) Stability analysis of Beclin-1 protein based on CHX treatment (Figure 2E). (B) Representative protein bands of SIRT1 and Beclin-1. (C) Representative protein bands of LC3-II/LC3-I in PMVECs treated with sh-SIRT1 or oe-Beclin-1. (D) Representative protein bands of LC3-II/LC3-I in PMVECs treated with h/R and miR-141-3p mimic. * p < 0.05. The cell experiments were repeated three times.