

Figure S1: Fluorescent semi-quantitative analysis of autophagy levels after cells were exposed to TiO₂ NPs, *** means $p < 0.001$.

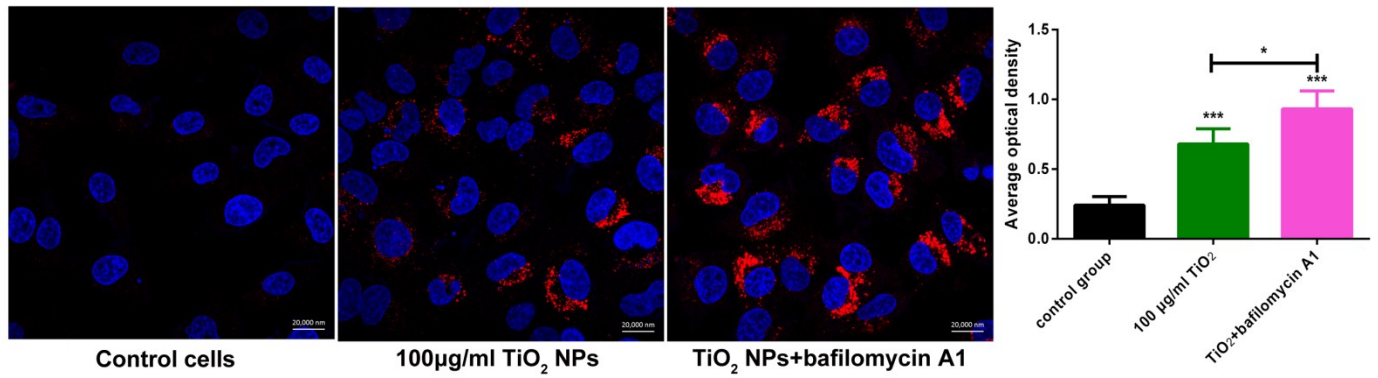


Figure S2: Immunofluorescence and semi-quantitative analysis of autophagy levels after cells were treated with TiO₂ NPs and bafilomycin A1, cell nuclear was stained blue with DAPI, autophagosome was stained red with CY3-conjugated antibody, *means $p < 0.05$, ***means $p < 0.001$.

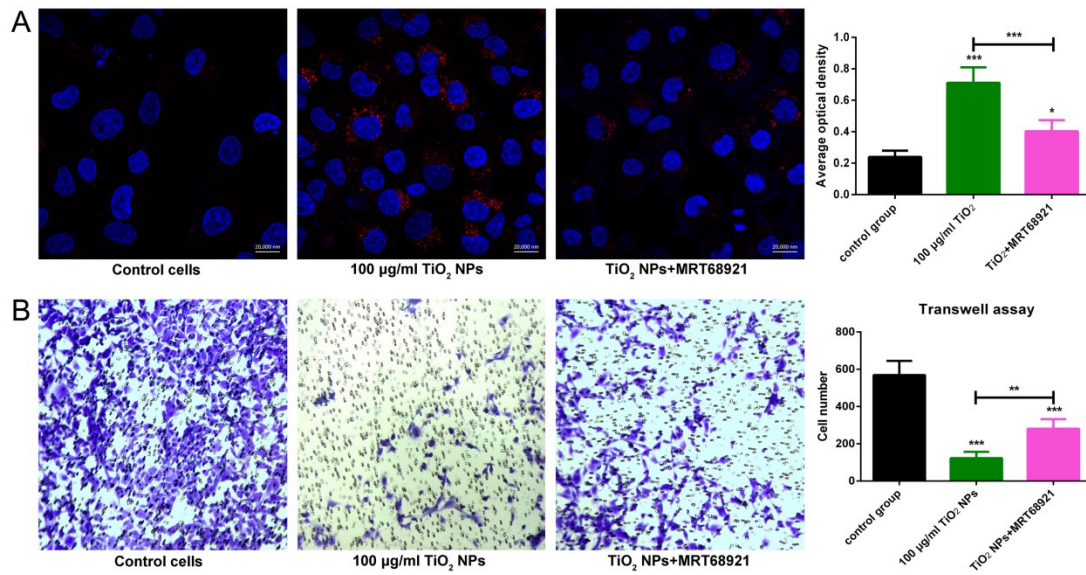


Figure S3: (A) Immunofluorescence and semi-quantitative analysis of autophagy levels after cells were treated with TiO₂ NPs and rapamycin. (B) Cell migration ability was evaluated with transwell assay and the penetrated cells were counted from four independent fields, data was presented as mean \pm SE. * means $p < 0.05$, ** means $p < 0.01$, *** means $p < 0.001$.

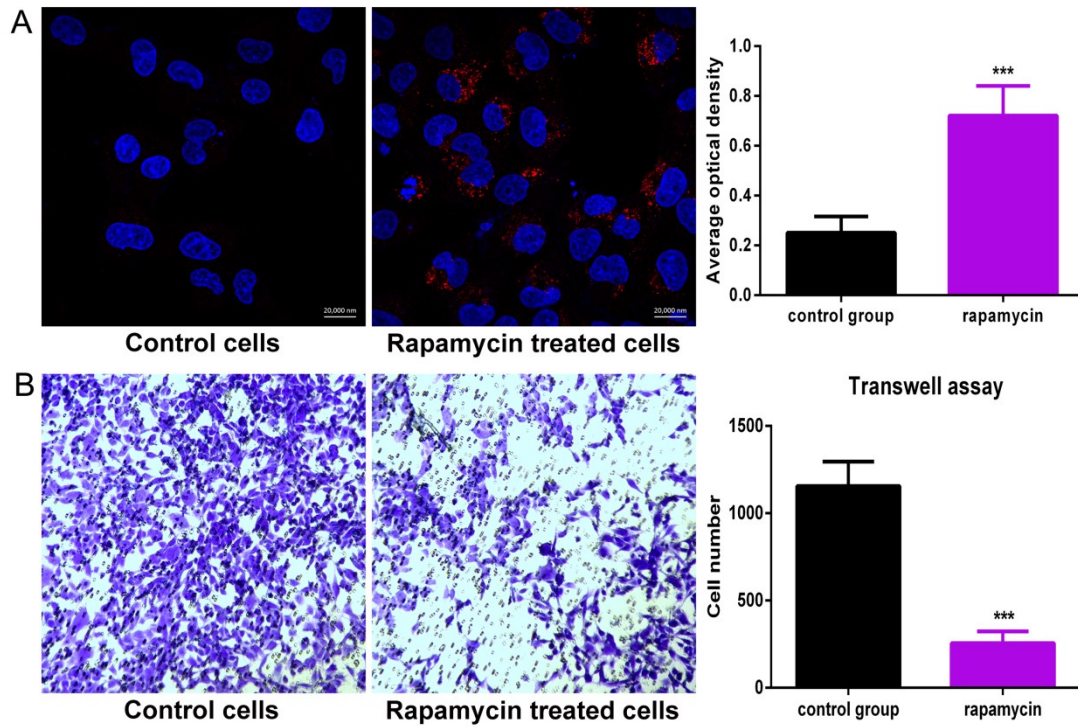


Figure S4: (A) Autophagy levels were assessed by immunofluorescence and semi-quantitative analysis of after cells were treated. (B) Cell migration ability was evaluated with transwell assay and cell numbers were counted from four independent fields, data was presented as mean \pm SE. ***means $p < 0.001$.

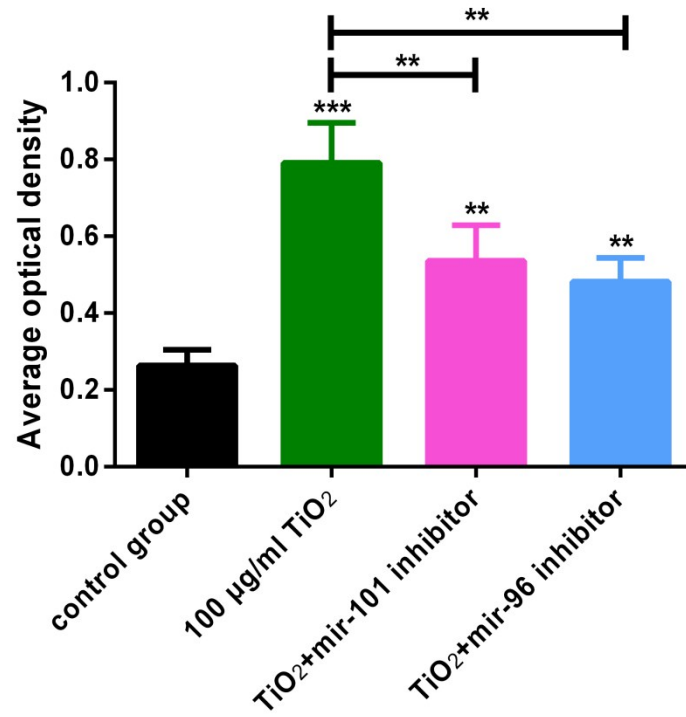


Figure S5: Fluorescent semi-quantitative analysis of autophagy levels after cells were treated with TiO₂ NPs and reversed with two microRNA inhibitor separately, ** means $p < 0.01$, *** means $p < 0.001$.

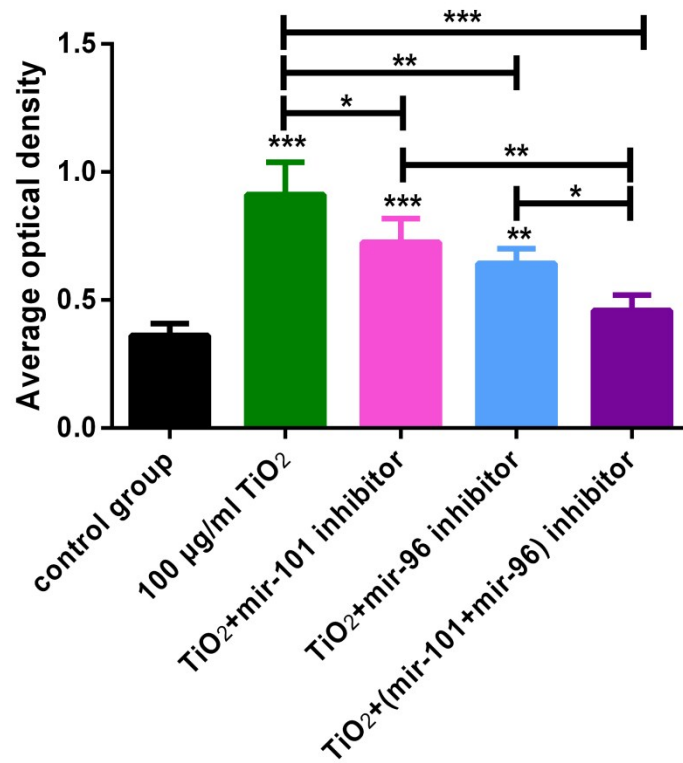


Figure S6: Fluorescent semi-quantitative analysis of autophagy levels after cells were treated with TiO₂ NPs and reversed with microRNA inhibitors, * means $p < 0.05$, ** means $p < 0.01$, *** means $p < 0.001$.