Figure S1: Fluorescent semi-quantitative analysis of autophagy levels after cells were exposed to TiO$_2$ NPs, *** means $p < 0.001$. 
Figure S2: Immunofluorescence and semi-quantitative analysis of autophagy levels after cells were treated with TiO$_2$ NPs and bafilomycin A1, cell nuclear was stained blue with DAPI, autophagosome was stained red with CY3-conjuncted 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 TiO$_2$ 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±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 ± SE. ***means p < 0.001.
Figure S5: Fluorescent semi-quantitative analysis of autophagy levels after cells were treated with TiO$_2$ 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 $p < 0.001$. 