



**Figure S1.** Arbutin did not induce autophagy in B16F10 and LL2 cells. Arbutin reduced PD-L1 expression in B16F10 and LL2 cells. B16F10 (A) and LL2 (B) cells ( $5 \times 10^5$  cells/well) were placed into 6-well plates and incubated at 37 °C for 24 h. Then treatment with arbutin (0-1.56 μM) for 6 h, the expression of LC3-I and LC3-II was measured by Western blotting, cisplatin as positive control.