

**Supplemental data 2**. The effect of IL-6R blocking on 4T1IL-6low cells. IL-6R antibody (10 ug/ml) was utilized to block IL-6 signaling pathway in 4T1IL-6low cells. (A) Cell growth was monitored by CCK-8 assay (B) Clonogenic survival analysis of infected 4T1IL-6low cells. (C) The quantification of the infected 4T1IL-6low cell apoptosis was detected using the Annexin V-FITC apoptosis detection kit. Apoptotic cells were recognized by Annexin V+PI-. (D) Wound healing assay was used to study the migratory ability of infected 4T1IL-6low cells (original magnification × 40). (E) The infiltrative and metastatic capability of infected 4T1 cells was evaluated by invasion assay (original magnification × 10). The stained cells from 5 selected views were observed under a light microscope at 200× magnification. \*, P < 0.05; \*\* P < 0.01; \*\*\*, P < 0.001.