





**S1 Fig.** (A) The cell viability of BGC823 cells that pre-treated with gradient rhIL-11 followed by chemotherapeutic agents treatment. (B) The cell viability of SGC7901 cells that pre-treated with gradient rhIL-11 followed by chemotherapeutic agents treatment. (C) The cell viability of wild type (WT) or interleukin 11 (IL-11) knocking down BGC823 cells that pre-treated with rhIL-11 followed by chemotherapeutic agents treatment. (D) The cell viability of WT or IL-11 knocking down SGC7901 cells that pre-treated with rhIL-11 followed by chemotherapeutic agents treatment. (E) The expression of IL-11 receptor in tumor tissues from chemo-sensitive (CS) or chemo-resistant (CR) patients by immunohistochemistry. Scale bar=50  $\mu$ m. (F) The apoptosis of cells in tumor tissues from CS or CR patients was detected by ATUNEL detection kit. Scale bar=50  $\mu$ m. (G) The percentage of apoptosis cells in tumor tissues from CS or CR patients. \*\* $p < 0.01$ .