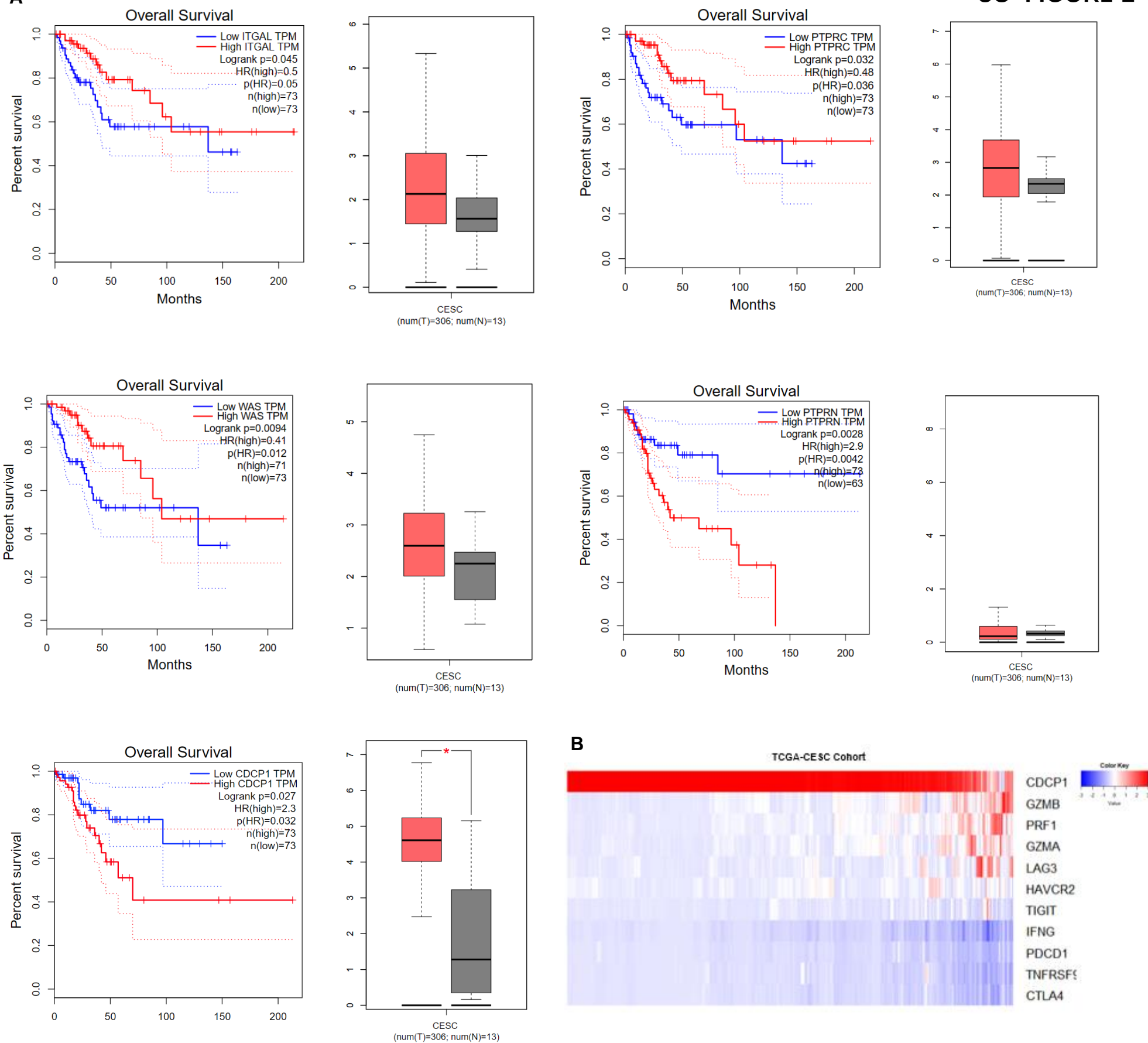


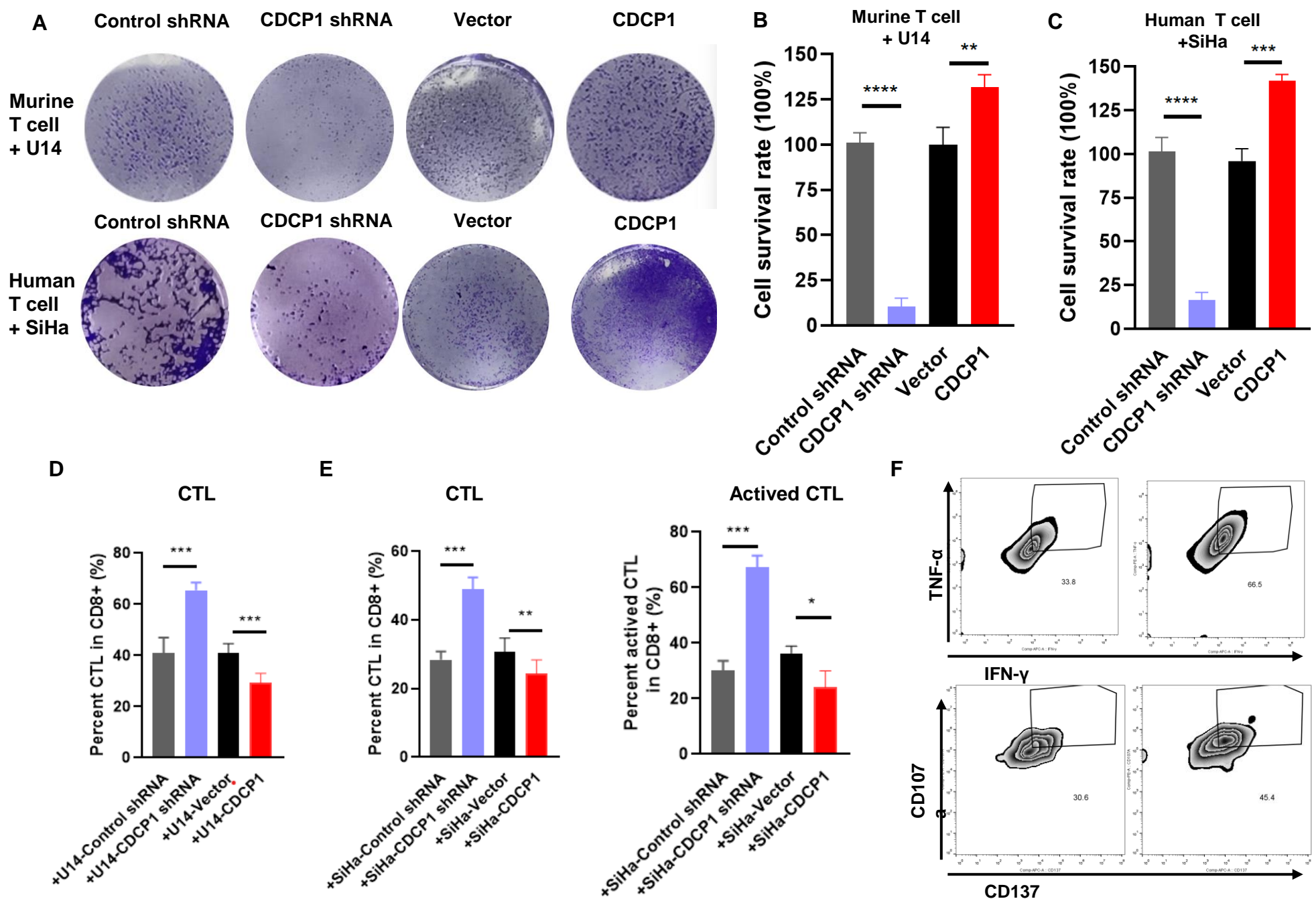
A



Supplementary Figure 1. Survival analysis and expression levels of potential cervical cancer immunotherapy targets in TCGA database.

A. Survival analysis and expression levels of ITGAL, PTPRC, PTPRN, WAS, and CDCP1 in the TCGA cervical cancer database. *: $P < 0.05$.

B. Heatmap of the correlation between CDCP1 and functional and exhaustion markers of T cells CDCP1 in the TCGA cervical cancer database.



Supplementary Figure 2. Different expression level of CDCP1 affected T cell specific killing effort in vitro.

A-C. Murine U14 cells and Human SiHa cells with different CDCP1 level were co-cultured with activated T cells. Cells were subjected to crystal violet staining. Relative fold ratios of surviving tumor cell intensities are shown in (B) Murine U14 cell & (C) Human SiHa cell.

D. T cell co-culture assay. Murine T cells were co-cultured with different CDCP1 levels of U14 cells. Analysis with flow Cytometry. Frequencies of IFN γ ⁺ and GZMB⁺ CTLs were quantified.

E&F: T cell co-culture assay. Human T cells were co-cultured with different levels of SiHa cells. Analysis with flow Cytometry. Frequencies of IFN γ ⁺ GZMB⁺ CTLs and CD107a⁺CD137⁺ activated CTL were quantified. (F) showed Representative Flow Cytometry Images Frequencies of IFN γ ⁺ GZMB⁺ CTLs and CD107a⁺CD137⁺ activated CTL. . Data represent at least three independent experiments. statistical significance of the difference was performed using Student's *t* test between groups. ns, not significant, **P* < 0.05, ***P* < 0.01, ****P* < 0.001 and *****P* < 0.0001.