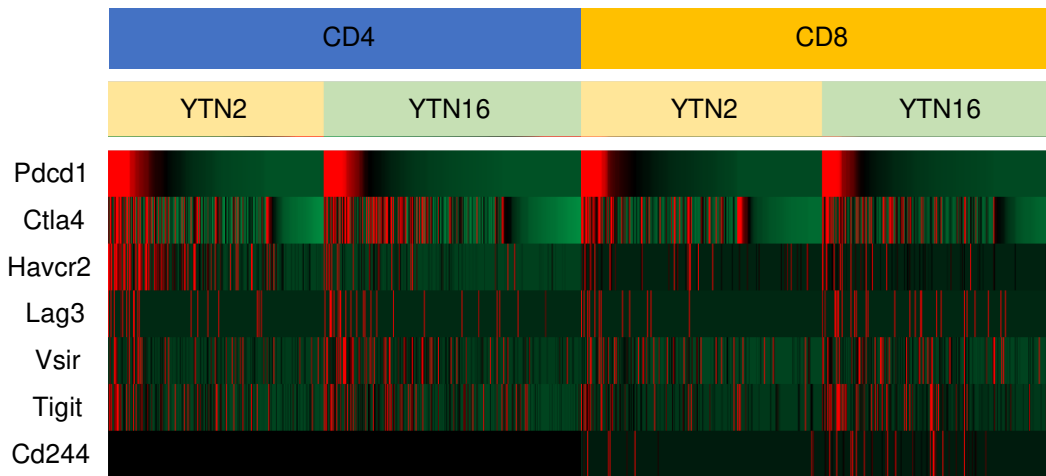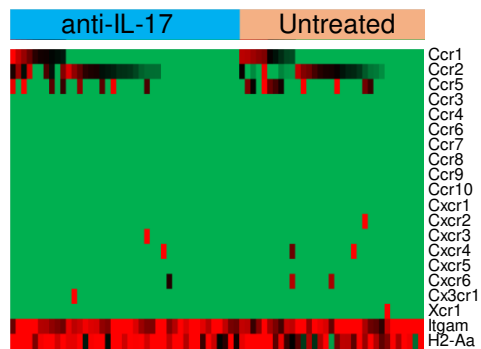**Supplementary Figure 1. Gating strategy.**
Mice were treated as Figure 2 legend. gating strategies to identify
indicated cell populations were shown.

Supplementary Figure 2. Expressions of inhibitory molecules in CD4+ and CD8+ tumor infiltrating cells.
Mice were treated as Figure 3 legend. Heatmap shows expression of indicated genes.

Supplementary Figure 3. Differentially expressed genes.
Mice were treated as Figure 3 legend. Scanpy analysis was performed to identify differentially expressed genes between (A) cluster 1 and cluster 2, (B) cluster 3 and cluster 4, (C) cluster 5 and cluster 4, and (D) cluster 5 and cluster 3.

Supplementary Figure 4. Expression of chemokine receptors in CD11b+ DCs. Mice were treated as Figure 6. CD45+ cells were sorted and subjected to single-cell RNA-Seq. Expression of chemokine receptors of CD11b+ DC were shown.