**Supplementary Fig. 1.** Validation of scRNA-seq results at the protein level using flow cytometry. (A,B) Expression of IFN-γ, TNF-α, and IL-2 on (A) CD4 T cells (gated by CD4+CD8-) and (B) CD8 T cells (gated by CD4-CD8+). IFN-γ, interferon γ; IL-2, interleukin 2; scRNA-seq, single-cell RNA sequencing; TNF-α, tumor necrosis factor α. Statistical analysis was conducted with one-way ANOVA Dunnett’s multiple comparisons test. An asterisk (*) indicates significant differences compared to the resting group. *p < 0.05, **p < 0.01, ***p < 0.001, ****p < 0.0001.

**A** CD4 T cells

**B** CD8 T cells