**Supplementary Table**

**Table S1:** Antibodies used for flow cytometry analysis in the study

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| --- | --- | --- | --- |
| **Antibody** |  **Amount (µL)** | **Cat no.** | **Vendor** |
| Rat Anti-mouse CD8α | 1 | 553033 | Becton and Dickinson, San Jose, CA |
| Goat anti-mouse IgG Fcg fragment specific PE | 1 | 115-096-071 | Jackson ImmunoResearch, West Grove, PA |
| Goat F(Ab)2 anti-human IgGg R-PE | 2.5 | H10104 | Invitrogen ,Carlsbad, CA |
| Anti-CD19+ CAR Fc specific (2D3)  | 1 | NA | Cooper Lab, MDACC |
| Anti-CD19+ CAR Idiotype 136.20.1- AlexaFluor-647AlexaFluor-488 | 1 | NA | Cooper Lab, MDACC |
| Anti-CD3 PE | 1 | 555333 | Becton and Dickinson, San Jose, CA |
| Anti-CD4 APC | 2.5 | 555349 | Becton and Dickinson, San Jose, CA |
| Anti-CD4 PercP Cy5.5 | 2 | 341654 | Becton and Dickinson, San Jose, CA |
| Anti-CD8 PercP Cy5.5 | 2 | 341051 | Becton and Dickinson, San Jose, CA |
| Anti-CD8 Pacific blue | 1 | 558207 | Becton and Dickinson, San Jose, CA |