



Supplementary Fig. S3: Design and expression of syngeneic B7-H3 CARs with different transmembrane, costimulatory, and activation domains. **(A)** Representative flow plots of GPE-86 producer cell lines expressing different CAR constructs post FACS sorting for the top positive cells. **(B)** Summary plot of %F(ab')₂-positive T-cells at 3-5 days post transduction (n = 7, mean ± SD, 2-way ANOVA with Tukey's test for multiple comparisons, table shows statistical comparisons between groups. * p<0.05; ** p<0.01; *** p<0.001; **** p<0.0001; ns, non-significant.). **(C)** Quantitative bar graph of %F(ab')₂-positive T cells from surface and intracellular staining of B7-H3 CAR T cells expressing 28.mζ and BB.ζ CARs. **(D)** Summary plot of %F(ab')₂-positive T-cells titrated to 40% CAR expression with NT T-cells (n = 7, mean ± SD, 1-way ANOVA with Tukey's test for multiple comparisons, p<0.0001). **(E)** Representative flow plots of %F(ab')₂-positive T cells titrated to an average of 40% CAR expression with NT T cells.