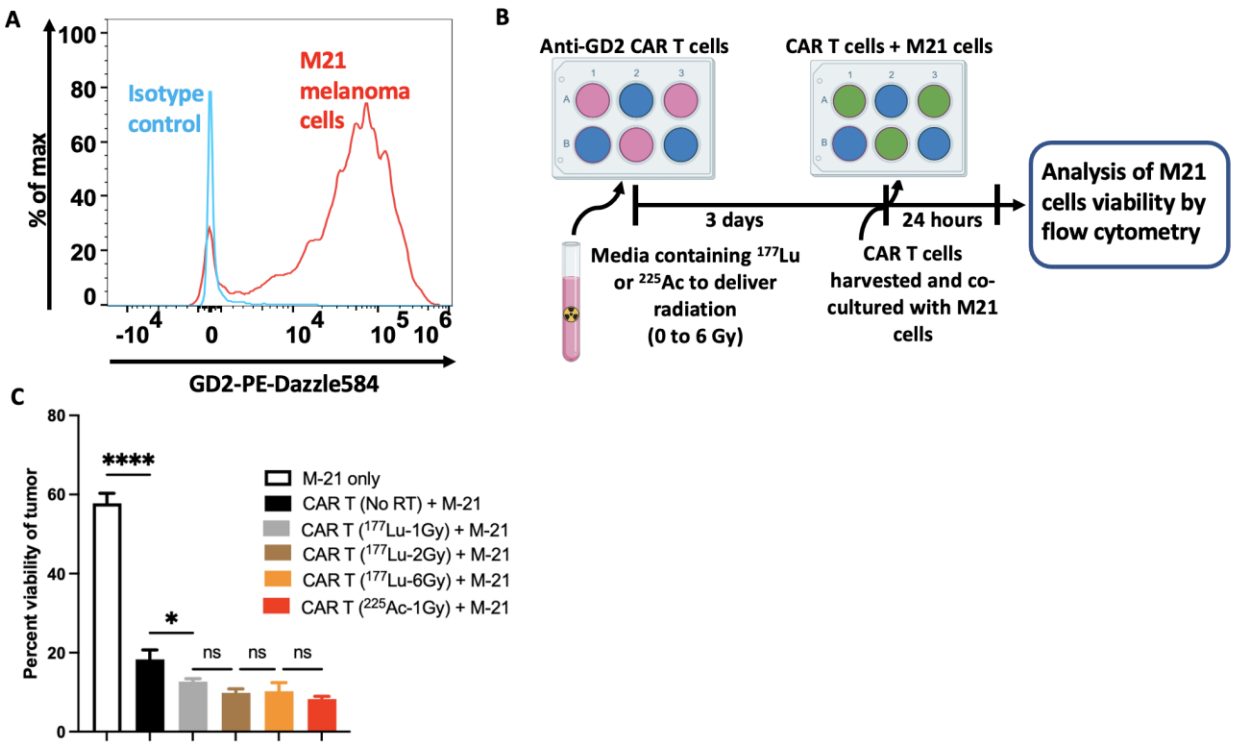


Supplemental Figure S1: ^{225}Ac and ^{177}Lu enhance the cytotoxicity of anti-GD2 CAR T cells against the GD-2 expressing melanoma cell line M21. (A) The human melanoma cell line M21 expresses GD2. (B) Experimental scheme: After irradiation of CAR T cells by ^{225}Ac or ^{177}Lu, the CAR T cells were harvested, washed and trypan blue viability assay was performed. The viable CAR T cells after irradiation were co-cultured with the GD2-expressing human melanoma cell line M21 for 24 hrs at a E:T ratio of 10:1 (Viable anti-GD2 CAR T cells: tumor cells). The viability of the GD2-expressing M21 cells was analyzed by flow cytometry. (C) The exposure of anti-GD2 CAR T cells to radiation delivered by radionuclide enhances their cytotoxicity against M21 cells in a dose-independent manner and irrespective of the type of radionuclide for the combinations tested. One-way ANOVA with Tukey's multiple comparisons correction *= 0.02; ****<0.0001; ns: not significant. Each bar represents the mean (triplicate measurements) and error bar represents the standard deviation.