

Figure S1. NK cell population markers in continuously expanded and early cryo-preserved-expanded NK cells. Human primary NK cells were expanded over a period of 12 days. Cryo-preservation was performed on day six of the expansion process. NK cells from three different donors (n=3) were used for analysis.

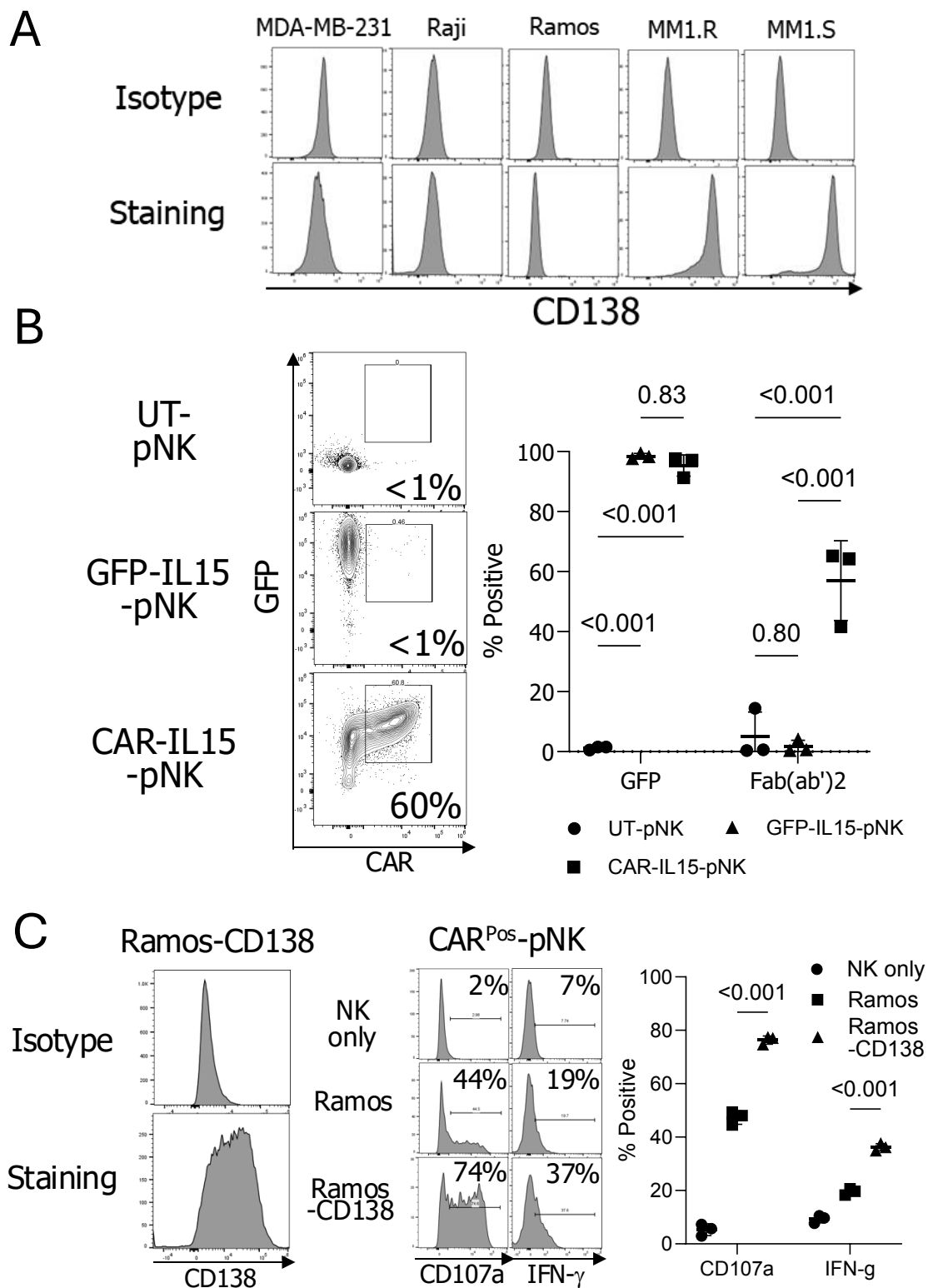


Figure S2. CD138 expression in target cells and pNK cell CAR functionality. (A) CD138 expression in the target cells used in this study was confirmed by flow cytometry. (B) GFP and CAR expressions in modified pNK cells. (n=3 cryopreserved donors' NK cells) (C) CAR activity confirmation using CD138 expressing Ramos cells.

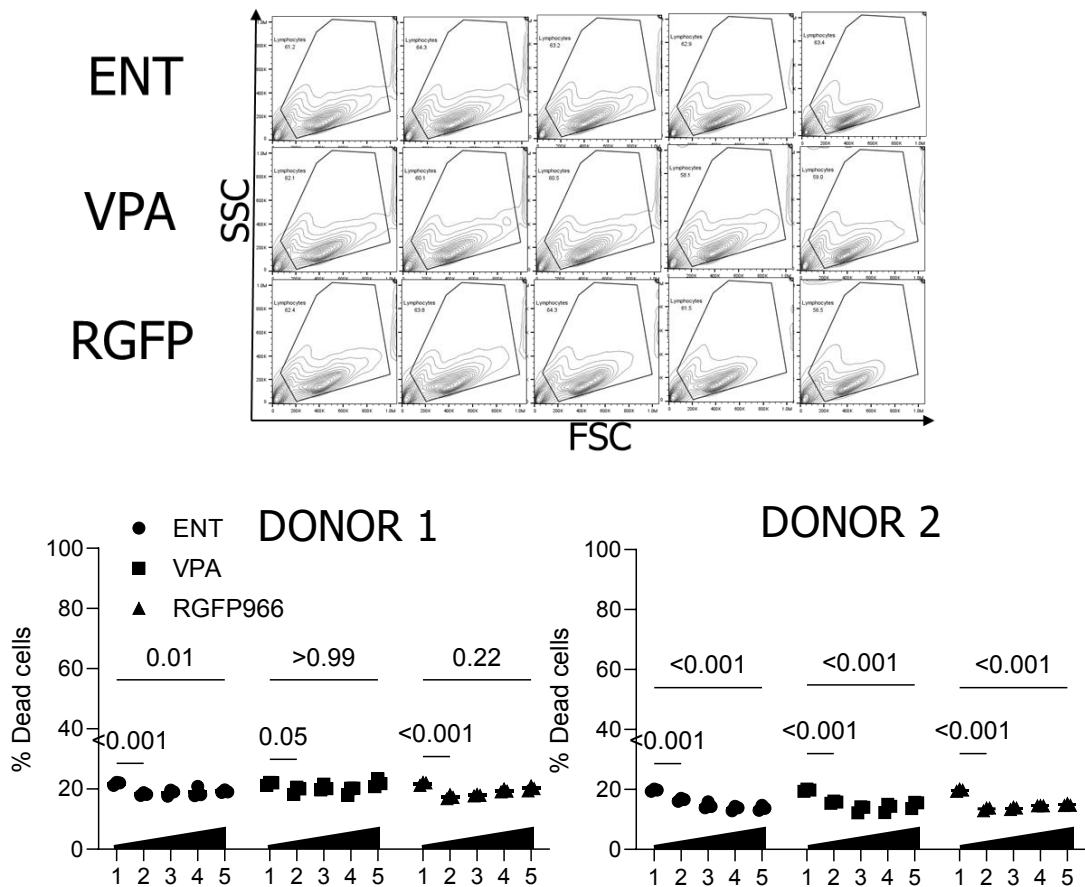


Figure S3. Histone deacetylase inhibitor (HDACi) toxicity. HDACi toxicity was assessed using flow cytometry, with dead cells identified in gated areas. Cells were exposed to various concentrations of inhibitors for two days. The concentrations tested were as follows: ENT (Entinostat): 0 μ M, 0.1 μ M, 0.3 μ M, 0.5 μ M, and 1 μ M; VPA (Valproic acid): 0 mM, 0.1 mM, 0.3 mM, 0.5 mM, and 1 mM; RGFP (RGFP966): 0 μ M, 2.5 μ M, 5 μ M, 10 μ M, and 20 μ M.

