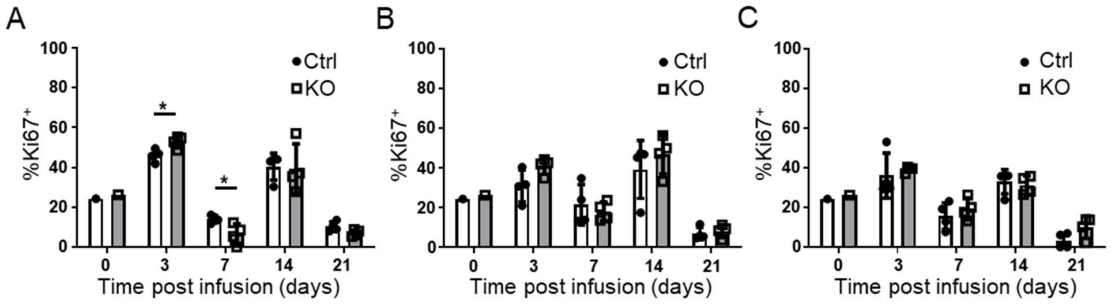
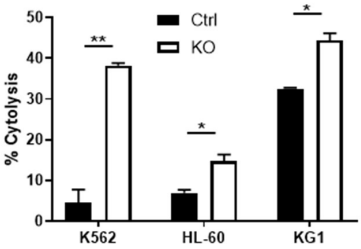
SUPPLEMENTARY MATERIALS



Supplemental Figure 1. *CBLB* KO PNK cells proliferate *in vivo*. The proportion of PNK cells expressing the proliferation marker Ki67 in donor cells isolated from bone marrow (A), spleen (B), and peripheral blood (C). * p<0.05



Supplemental Figure 2. *CBLB* KO PNK cells demonstrate enhanced *ex vivo* cytotoxicity. *CBLB* KO (KO) or control (Ctrl) PNK cells were injected intravenously (i.v.) into NSG mice one day after intraperitoneal (i.p.) Busulfan treatment. rhIL-15 was administered i.p. every two days until day 12. Animals were sacrificed on day14 and hCD45+ cells were isolated from mouse liver for *ex vivo* cytotoxicity against K562, HL-60 and KG1 at 1.25: 1 effector to target ratio. Data were collected using flow cytometry at 4 hours after co-culture of PNK and target cells (n=2). * p<0.05, ** p<0.01