Figure S7

Effect of anti-PD-1 Ab on sensitizing B2m-/- tumor cells



Supplementary Fig. S7. Effect of PD-1 inhibition on treatment of tumors containing a *B2m*-/- population.

(A-C) Mice were injected subcutaneously $(4x10^5 \text{ cells})$ with B16-Ova tumor cells or a 4:1 mixture of B16-Ova and *B2m-/-* cells. The indicated edits were performed in *B2m-/-* cells (ctrl-KO or *Rnf31/Atg5-*dKO). Following tumor engraftment (day 7), activated OT-I T cells (3x10⁶) were injected intravenously. PD-1 antibody or isotype control antibody treatment was initiated on day 7 and continued twice weekly. Tumor growth (A-B) and survival (C) were recorded (n=5-7 mice/group).

(**D**) Tumor cell composition in mice whose tumors grew out after treatment with OT-I T cells and isotype control antibody. Representative flow cytometry plots of *B2m-/-* exp-KO (mCherry), B16-Ova (ZsGreen), and tumor cells negative for both marker proteins before inoculation (top row) and in tumors (bottom row).

Data are depicted as the mean \pm SEM. Statistical significance was assessed by a two-way ANOVA with Dunnett's post hoc test (A) and Kaplan-Meier log-rank (Mantel-Cox) test (C). ****p < 0.0001; **p <0.01; NS, not significant.