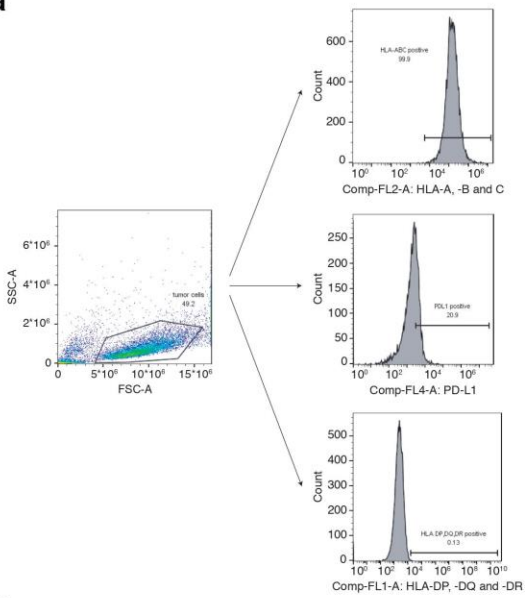
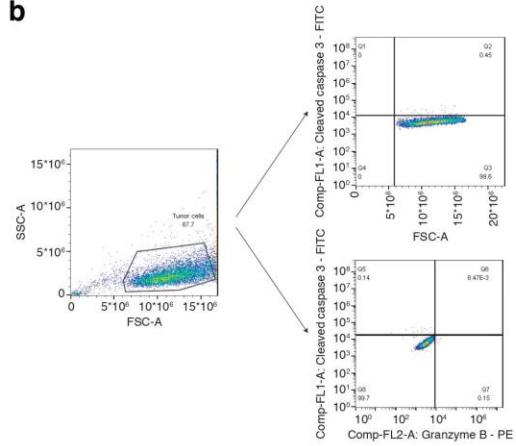
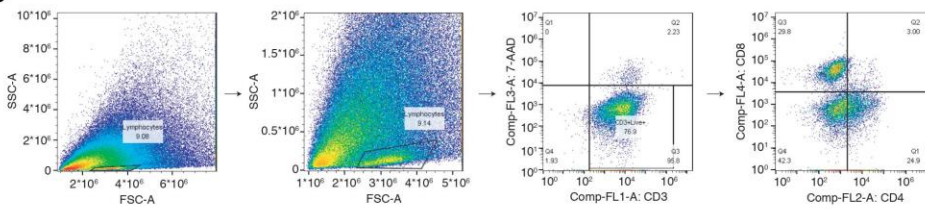
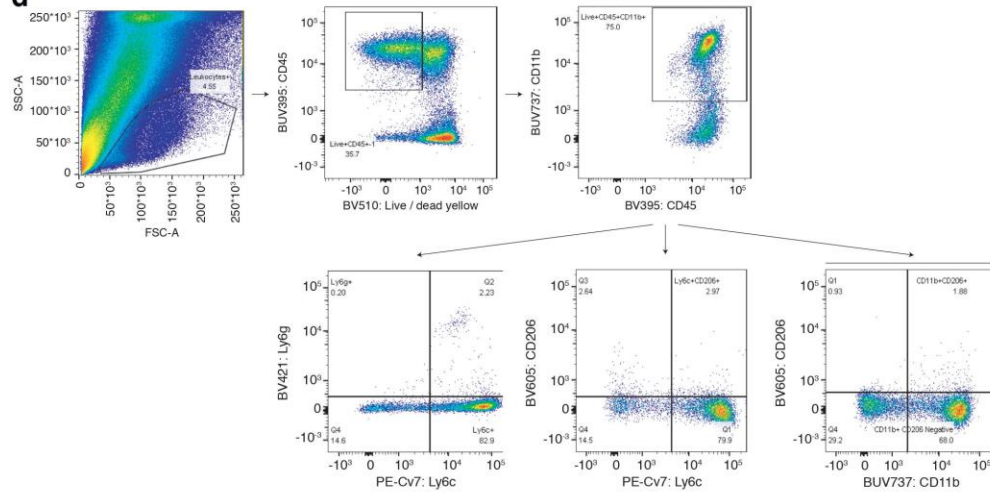


Supplementary Fig. 1. Gating strategy for flow cytometry analyses. (a) A gating strategy for excluding debris and choosing tumor cells based on high forward scatter (FSC) was employed and used for estimating levels of HLA-A, -B, and -C, PD-L1 and HLA-DP, -DQ and -DR in different cell lines. Experiments from entinostat-treated UM22 cells are shown as representative examples. (b) Granzyme B and cleaved caspase 3 measurements in cell lines co-cultured with MART-1-reactive TILs. Experiments from MP41 are shown as representative examples. (c) Within the in vivo B16-F10 tumor suspension, leukocytes were identified by a low side scatter (SSC) and low forward scatter (FSC) with gates for estimating levels of live CD3⁺ cells for CD4⁺ and CD8⁺ TILs, as well as (d) gates for estimating levels of live CD45 cells for CD11b⁺, Ly6c⁺, Ly6g⁺, CD206⁺ myeloid infiltrating cells.

a**b****c****d**

Supplementary Fig. 2. Entinostat increases HLA expression in human UM cell lines and mouse B16-F10 melanomas. (a) HLA class 2 expression as assessed by flow cytometry in human UM cell lines 92-1, MP41 and UM22 treated with DMSO or entinostat. The experiment was repeated twice with $n = 3$ biological replicates per cell line and condition, except in the case of UM22, where $n = 5$ and $n = 1$ replicates were used for the first and second experiments, respectively (excluded from statistical tests due to nearly absent expression in all cases). Significance was assessed by t-tests and adjusted p-values < 0.05 (Benjamini-Hochberg correction) were considered statistically significant, as indicated by asterisks. (b) Immune-associated gene expression levels inferred from RNA sequencing data after entinostat treatment, relative to DMSO controls, as shown in Figure 1c. (c) Flow cytometry analysis of parental B16-F10 cells and CRISPR/Cas9-generated PD-L1 knockout B16-F10 cells after treatment with entinostat for 24 h.

