

Figure S1: Anti-HVEM therapy in humanized mice. (A) Mean tumor volume (\pm SEM) of the PC3 prostate cancer cell line in non-humanized NSG mice at the indicated time after treatment initiation. Arrows indicates days of the injection of the anti-HVEM mAb. Number of mice are indicated in brackets. The p value is the result of a linear regression analysis testing the null hypothesis that the two slopes are identical. Results are compiled from 3 independent experiments. **(B)** Expression of HVEM on the MDA-MB-231 breast cancer cell line (MDA) by flow cytometry. Pale grey histogram is from the FMO control. Mean tumor volume (\pm SEM) of MDA-MB-231 cells in humanized mice treated at the indicated times with the anti-HVEM mAb (arrows). Number of mice included in the study are indicated in brackets. Results are compiled from 2 independent experiments. **(C)** Expression of HVEM on the Gerlach melanoma cell line by flow cytometry. Pale grey histogram is from the FMO control. Mean tumor volume (\pm SEM) of Gerlach cells in humanized mice treated at the indicated times with the anti-HVEM mAb (arrows). Number of mice included in the study are indicated in brackets. Results are compiled from 2 independent experiments.

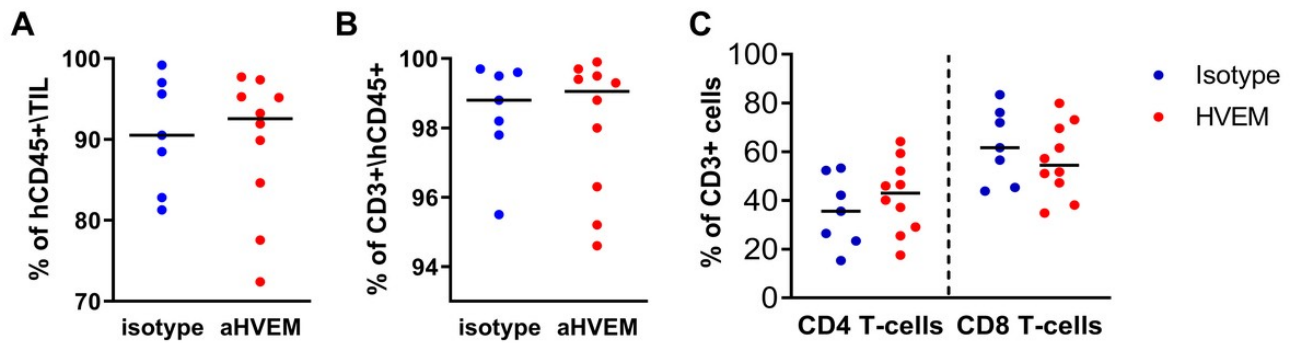


Figure S2: T cell landscape in PC3 tumor of humanized mice. (A) Frequencies of human CD45+ cells among all TILs collected from PC3 tumors of humanized mice at D21 post treatment initiation. (B) Frequencies of CD3+ cells among human CD45+ TILs (B) and of CD4+ or CD8+ cells in CD3+CD45+ cells (C) in the same conditions. Each dot is a mouse. Results are cumulative of 2 independent experiments.

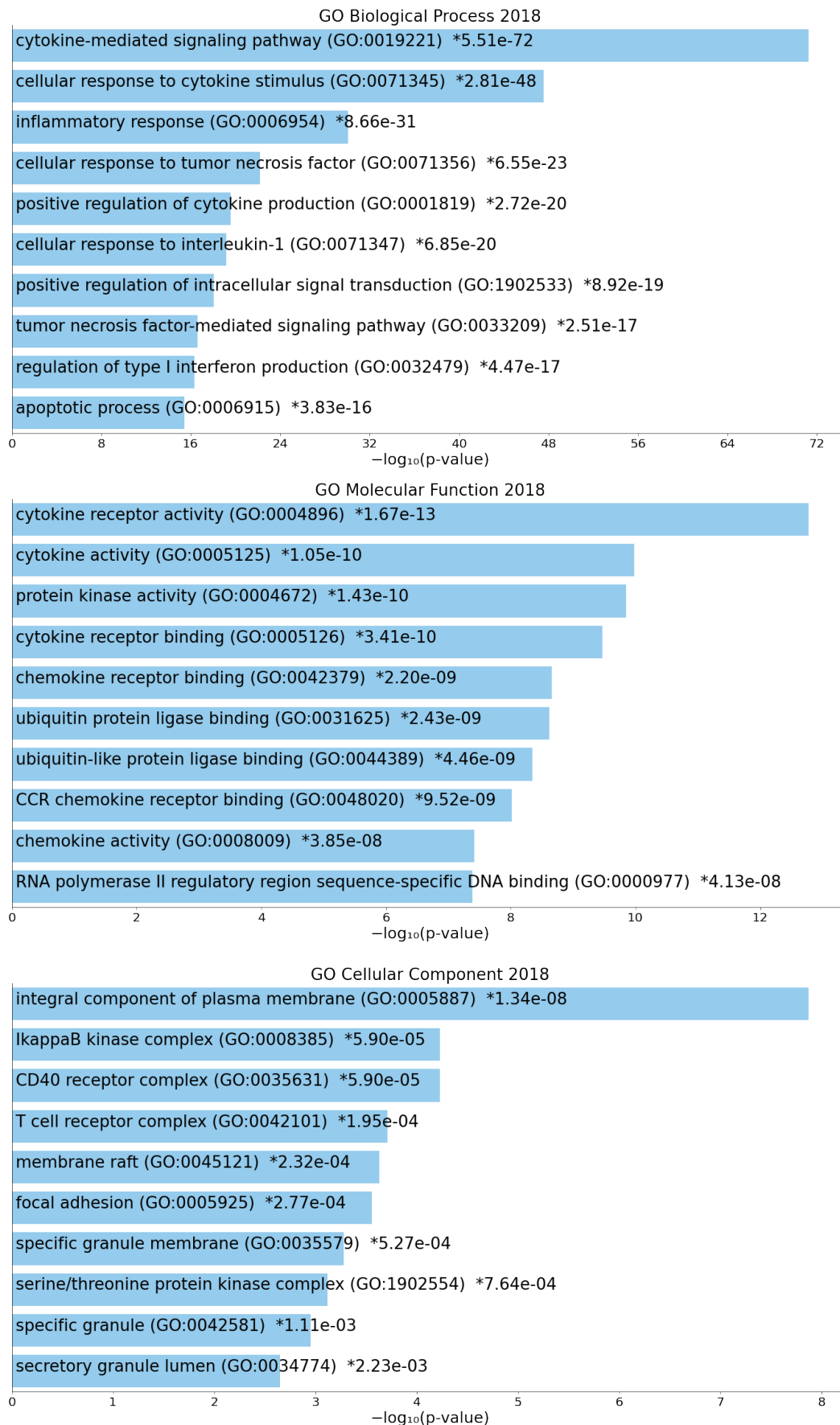


Figure S3: Enrichment analysis in TILs of anti-HVEM-treated mice. A list of DEG up regulated by the anti-HVEM treatment in CD45+ TILs was entered in Enrichr and analyzed with Appyter. The top 10 ontologies in each of the indicated categories (Biological process, Molecular function and Cellular component) are represented according to their p value from an exact Fisher test embedded in the application. A star denotes an adjusted p value inferior to 0.05.