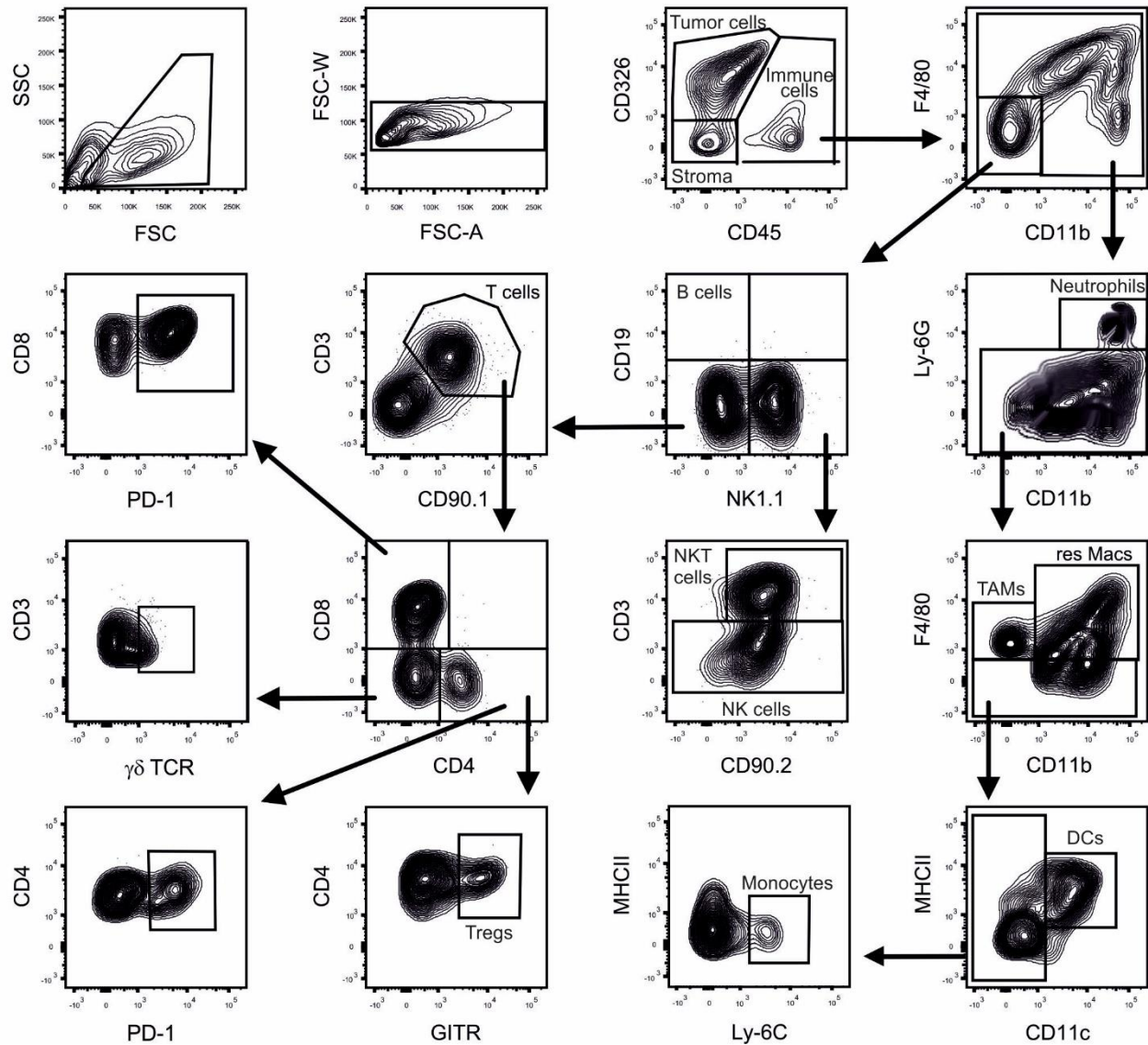


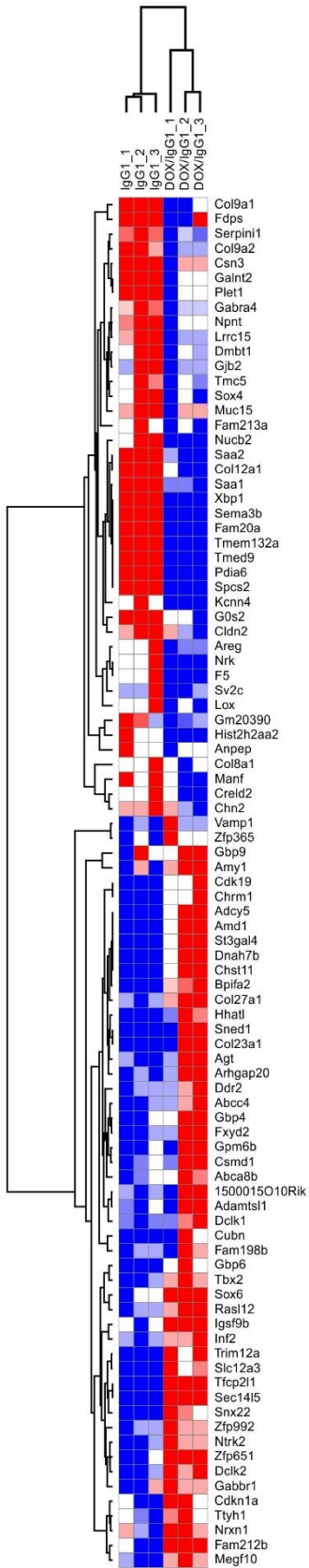
Supplementary Figure 1



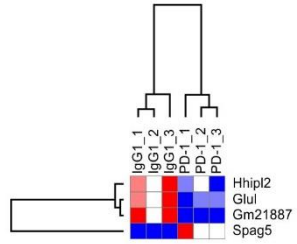
Supplementary Figure 1. Gating strategy for tumor immune cells. First, viable cells and cell doublets were discriminated by their SSC and FSC characteristics. Single cells were classified as tumor cells (CD326+ CD45-), stroma (CD326- CD45-) and immune cells (CD326- CD45+). Immune cells were further characterized as neutrophils (CD326- CD45+ Ly-6G+ CD11b+), tumor-associated macrophages (TAMs, CD326- CD45+ Ly-6G- F4/80+ CD11blow), resident macrophages (res Macs, CD326- CD45+ Ly-6G- F4/80+ CD11bhigh), DCs (CD326- CD45+ Ly-6G- F4/80- CD11b+ MHCII+ CD11c+), monocytes (CD326- CD45+ Ly-6G- F4/80- CD11b+ MHCII- CD11c- Ly-6C+), B cells (CD326- CD45+ F4/80- CD11b- CD19+), NK cells (CD326- CD45+ F4/80- CD11b- NK1.1+ CD3- CD90.2+/-), NKT cells (CD326- CD45+ F4/80- CD11b- NK1.1+ CD3+ CD90.2+), T cells (CD326- CD45+ F4/80- CD11b- CD19- NK1.1- CD90.2+ CD3+), CD4+ T cells (CD4+,

CD326- CD45+ F4/80- CD11b- CD19- NK1.1- CD90.2+ CD3+ CD4+), CD4+/PD-1+ T cells (CD4+/PD-1, + CD326- CD45+ F4/80- CD11b- CD19- NK1.1- CD90.2+ CD3+ CD4+ PD-1+), regulatory T cells (Tregs, CD326- CD45+ F4/80- CD11b- CD19- NK1.1- CD90.2+ CD3+ CD4+ GITR+), cytotoxic T cells (CD8+, CD326- CD45+ F4/80- CD11b- CD19- NK1.1- CD90.2+ CD3+ CD8+), CD8+/PD-1+ T cells (CD8+/PD-1+, CD326- CD45+ F4/80- CD11b- CD19- NK1.1- CD90.2+ CD3+ CD8+ PD-1+), and $\gamma\delta$ T cells (CD326- CD45+ F4/80- CD11b- CD19- NK1.1- CD90.2+ CD3+ CD4- CD8- $\gamma\delta$ TCR+). Representative contour plots from an IgG1 treated PyMT tumor are shown.

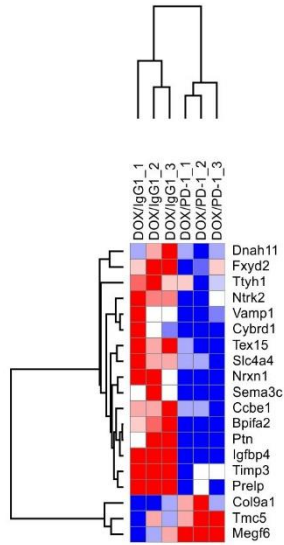
A



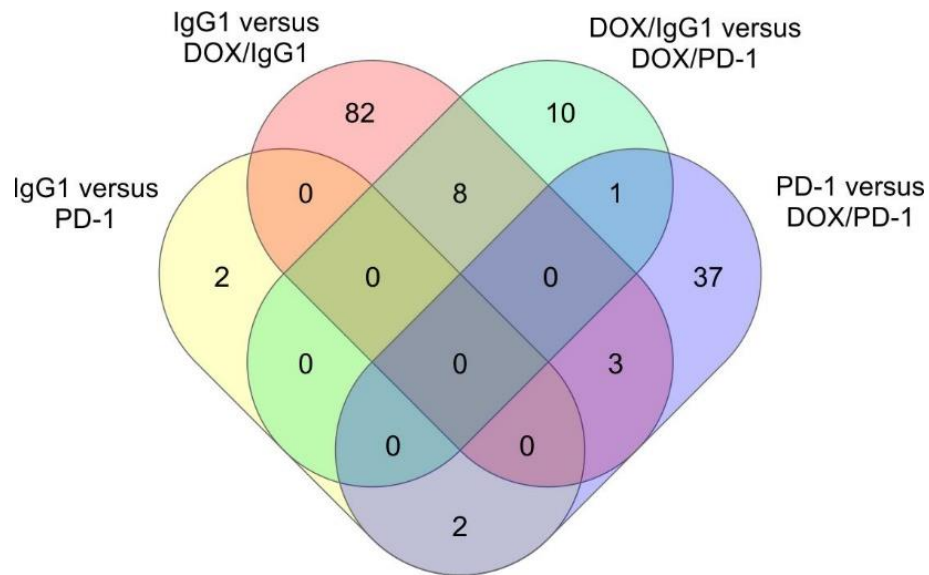
B



C



Supplementary Figure 2. Differentially expressed genes dependent on treatment.
The heat maps show differentially expressed genes between PyMT tumors treated with IgG1 or doxorubicin (DOX) treatment (**A**), treated with IgG1 or PD-1 (**B**), or treated with DOX or DOX plus anti-PD-1 (**C**) (n = 3 each).



Supplementary Figure 3. Overlap between gene signatures. Gene signatures in Figure 3A and Figure S2 were compared for overlapping genes, which are indicated in the Venn diagram.