Figure S1. Anti-TIGIT treatment does not alter serum cytokines in cancer septic hosts.

Cancer mice were subjected to CLP and treated with anti-TIGIT mAb or PBS. Serum was

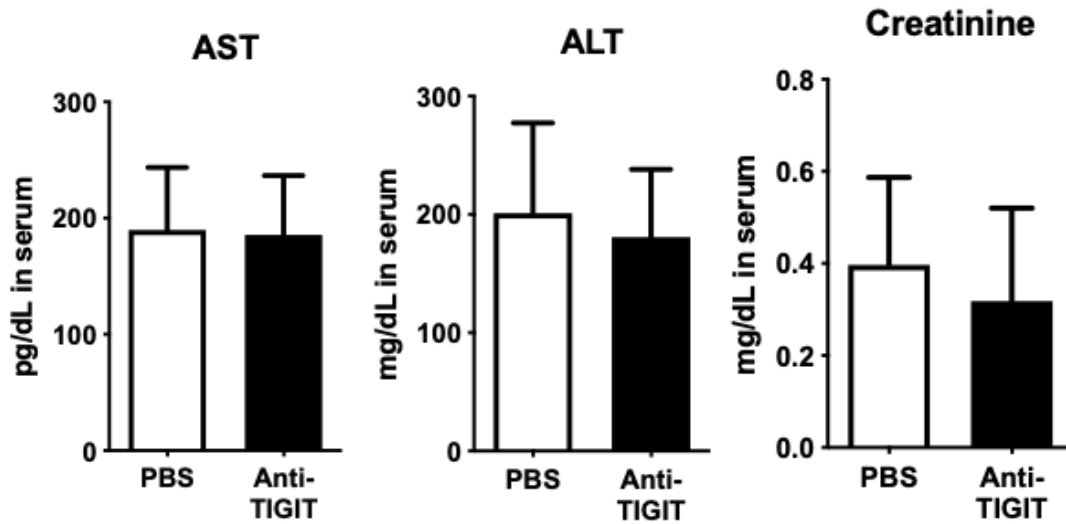collected at 48h post CLP and analyzed for the cytokines shown above.

Figure S2. Anti-TIGIT treatment does not alter serum AST, ALT, or creatinine in cancer septic hosts. Cancer mice were subjected to CLP and treated with anti-TIGIT mAb or PBS. Serum was collected at 48h post CLP and analyzed for the markers of organ damage shown shown above.
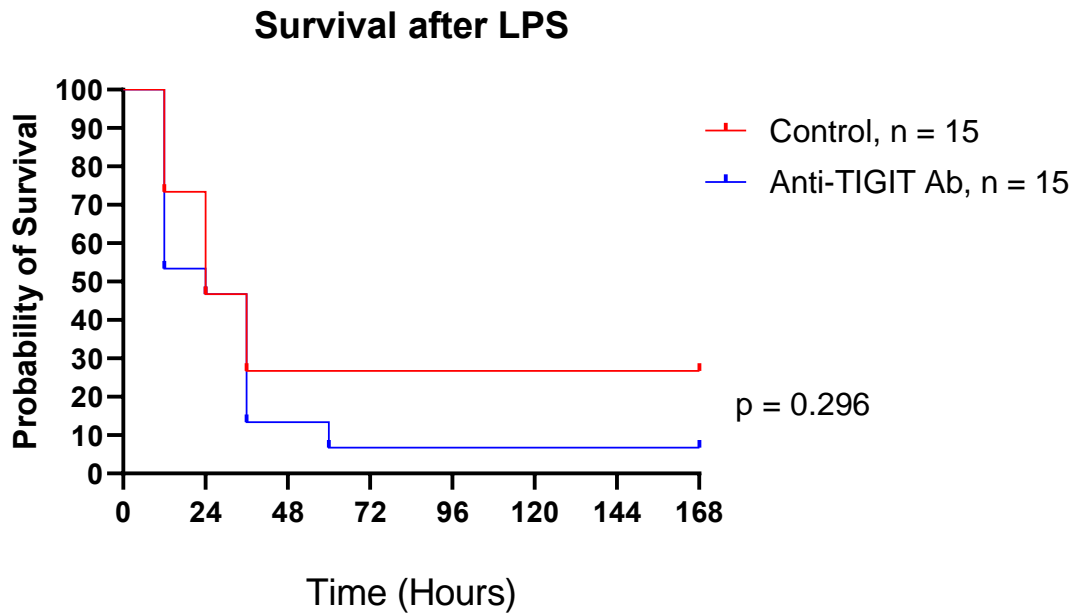
Survival after LPS

Figure S3. Anti-TIGIT does not impact mortality of cancer mice in a model of endotoxic shock. B6 mice were injected with LLC cells and tumors were allowed to develop for 30 days. Mice were injected with 80 μg poly(I:C) and six hours later, received 150 μg of *E. coli* O26:B6 LPS via intraperitoneal injection. Anti-mouse TIGIT monoclonal antibody was injected subcutaneously at a dose of 400 μg per mouse 1h after CLP, and the injection was repeated 12h later. Control animals received PBS injections. Animals were monitored for survival.
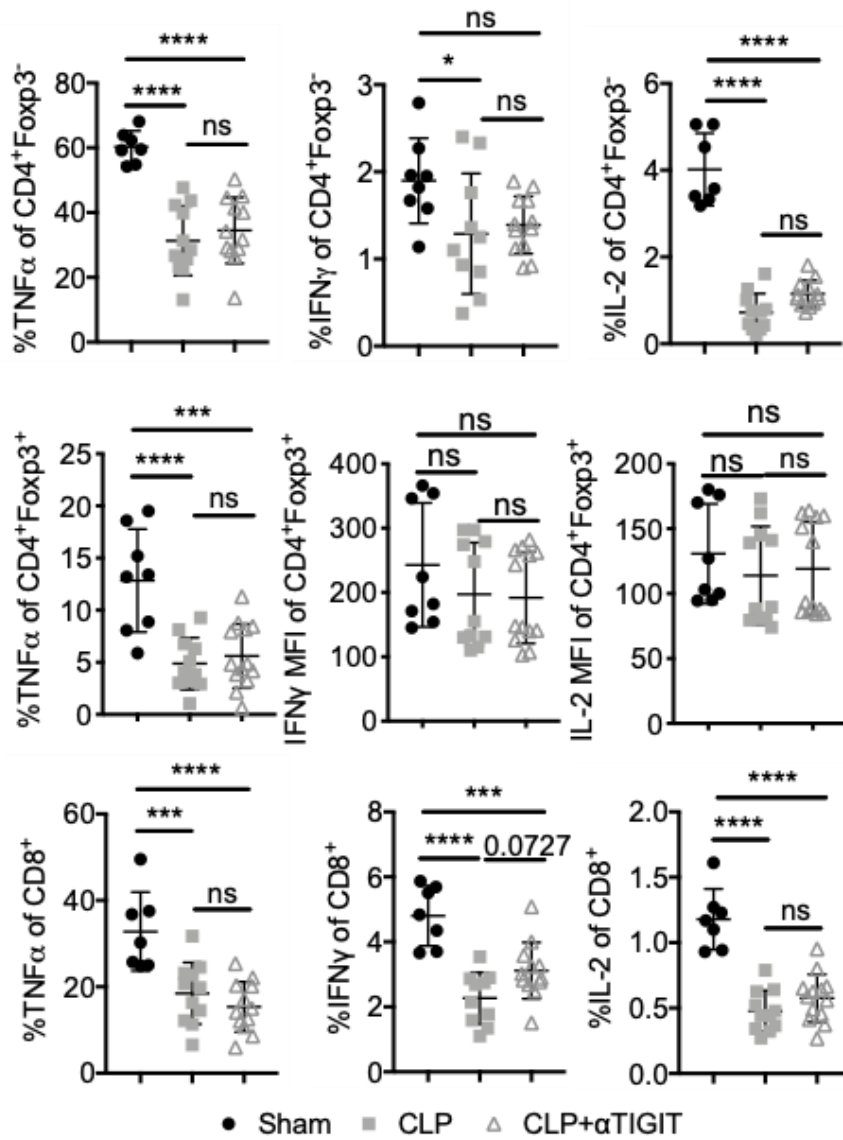
Figure S4. Anti-TIGIT treatment does not alter cytokine secretion in the CD4+ and CD8+ T cells of cancer septic hosts. Cancer mice were subjected to CLP (or sham surgery) and treated with anti-TIGIT mAb or PBS. Splenocytes from each group were stimulated with PMA and ionomycin at 37℃ for 4 hours. Intracellular staining of TNF, IFNγ and IL-2 was performed. Data were pooled from 2 independent experiments. Percentages of TNF+, IFNγ+ and IL-2+ cells are displayed. *P ≤ 0.05, **P ≤ 0.01, ***P ≤ 0.001, ****P ≤ 0.0001.
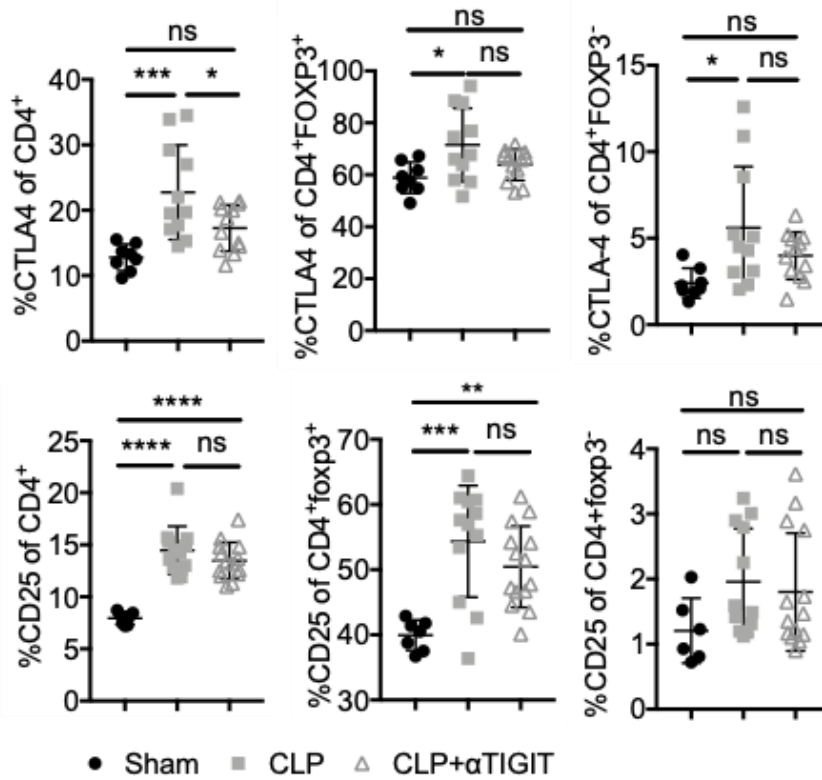
Figure S5. Anti-TIGIT treatment decreases CTLA-4 expression on bulk CD4⁺ T cells in cancer septic mice. Cancer mice were subjected to CLP (or sham surgery) and treated with anti-TIGIT mAb or PBS. Two days after CLP, mice from each group were sacrificed and spleens were collected for CTLA-4 and CD25 staining. Summary data of CTLA4 and CD25 expression on total CD4⁺ T cells, Treg cells and Tconv is displayed. $*P \leq 0.05$, $**P \leq 0.01$, $***P \leq 0.001$, $****P \leq 0.0001$.