

Supplementary Figure S1

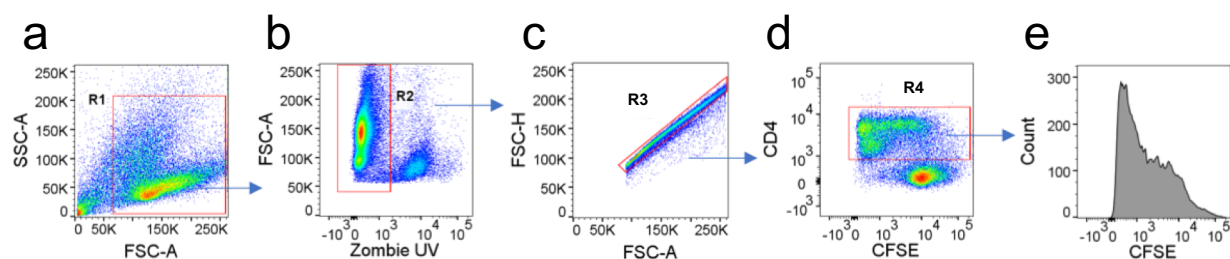


Fig. S1. Gating strategies for analysis of proliferating CD4⁺ T cells. **a** Forward scatter (FSC-A) and side scatter (SSC-A) was used to exclude cell debris (region R1). **b** Exclusion of dead cells using viability dye (region R2). **c** Doublet exclusion gate based upon FSC-H vs FSC-A (region R3). **d** R4 gate was drawn around the CD4⁺ T cell population. **e** Histogram showing the CFSE fluorescence intensity (FL1) within the CD4⁺ T cell population.

Supplementary Figure S2

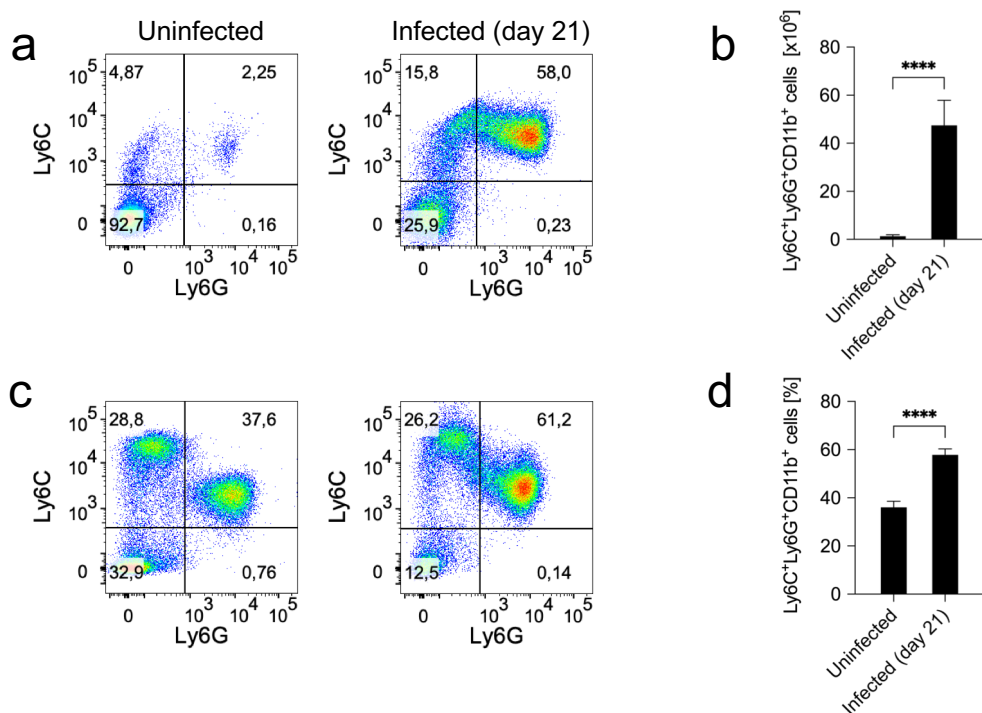


Fig. S2. Expansion of MDSC in the spleen and bone marrow of *S. aureus*-infected mice. **a** Flow cytometry analysis showing the frequency of Ly6C⁺Ly6G⁺CD11b⁺ MDSC in the spleen of uninfected (left panel) or *S. aureus*-infected (right panel) mice at day 21 of infection. **b** Absolute numbers of Ly6C⁺Ly6G⁺CD11b⁺ MDSC in the spleen of uninfected or *S. aureus*-infected mice at day 21 of infection ($n=5$). **c** Flow cytometry analysis showing the frequency of Ly6C⁺Ly6G⁺CD11b⁺ MDSC in the bone marrow of uninfected (left panel) or *S. aureus*-infected (right panel) mice at day 21 of infection. **d** Frequency of Ly6C⁺Ly6G⁺CD11b⁺ MDSC in bone marrow of uninfected or *S. aureus*-infected mice at day 21 of infection ($n=5$). ****, $p < 0.0001$.

Supplementary Figure S3

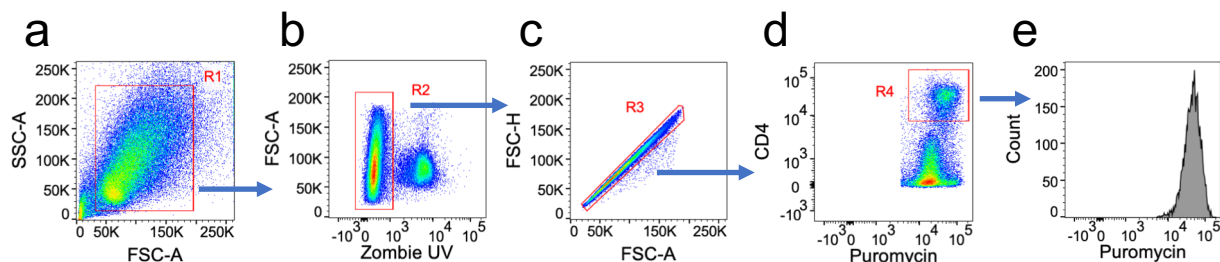


Fig. S3. Gating strategies for SCENITH analysis. **a** forward scatter (FSC-A) and side scatter (SSC-A) was used to exclude cell debris (region R1). **b** Exclusion of dead cells using viability dye (region R2). **c** Doublet exclusion gate based upon FSC-H vs FSC-A (region R3). **d** R4 gate was drawn around the CD4⁺ cells population. **e** Histogram showing the intensity anti-puromycin staining within the CD4⁺ cell population.