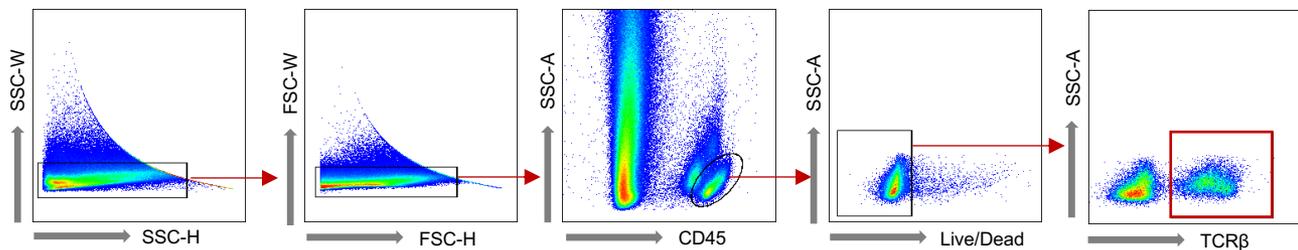
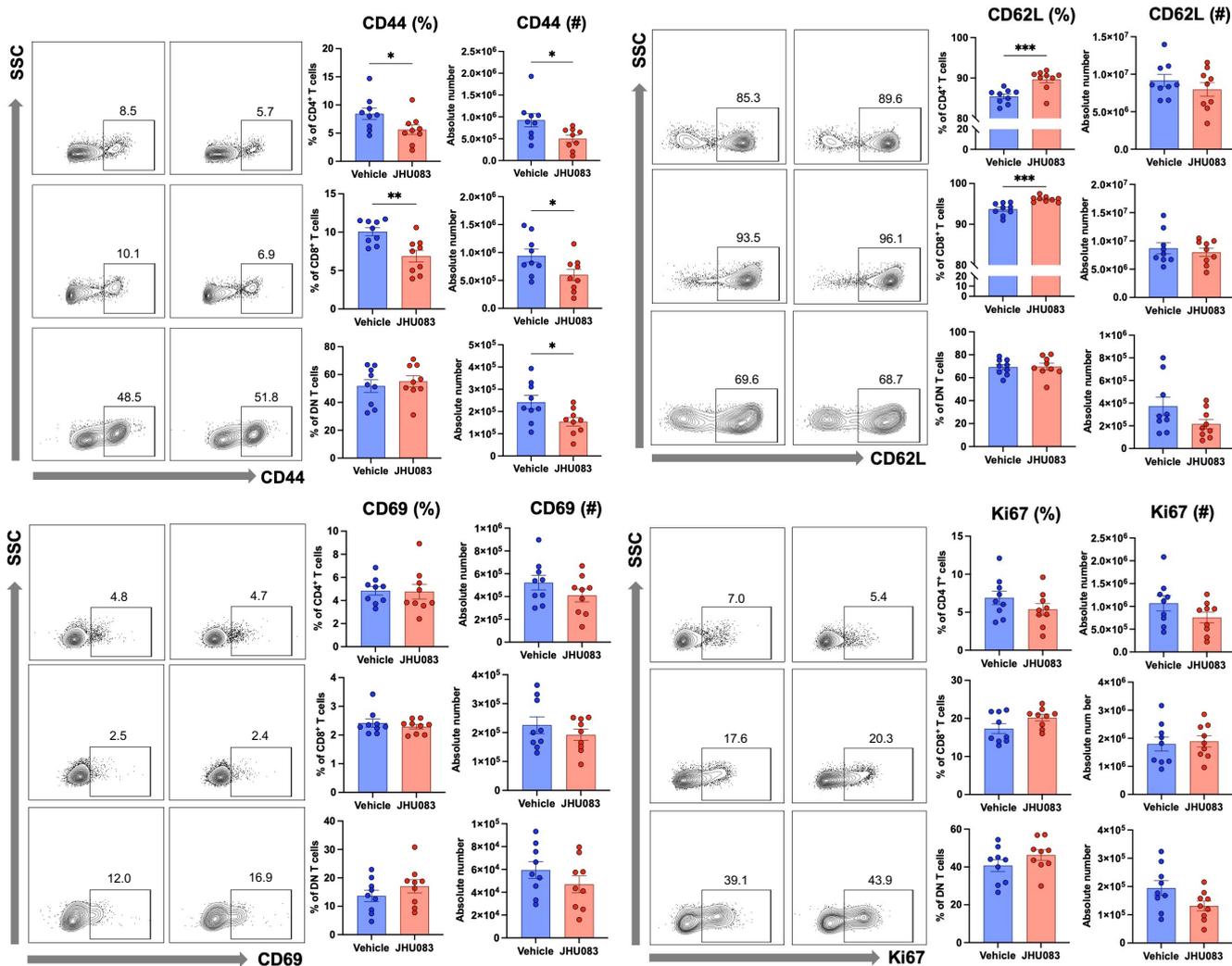


Supplemental Figure 1



Supplemental Figure 1. Gating strategy for kidney T cells. Isolated KMNCs were analyzed with spectral flow cytometer as described in Methods. After single cell gating, lymphocytes were identified with SSC-A and CD45^{high} gating. $\alpha\beta$ T cells were identified from live lymphocytes population with TCR β ⁺ gating.
KMNCs, kidney mononuclear cells

Supplemental Figure 3



Supplemental Figure 3. Effects of glutamine blockade on splenic T cell phenotypes in ischemic AKI. JHU083 treatment reduced CD44 expression and increased CD62L expression in splenic CD4⁺ and CD8⁺ T cells from post-IRI mice. Statistical analyses were performed using two-tailed *t* test ($n = 9$ mice in each group). * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$. DN, double-negative.

Supplemental Figure 4

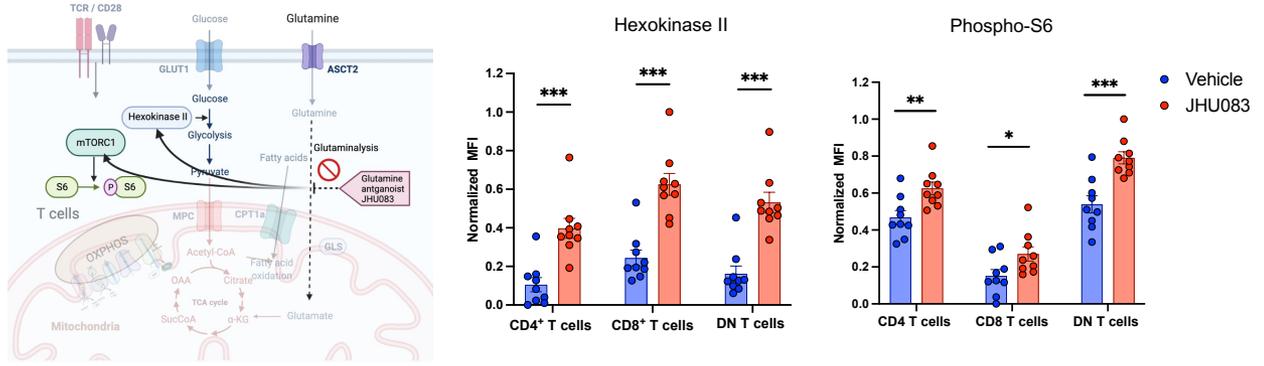
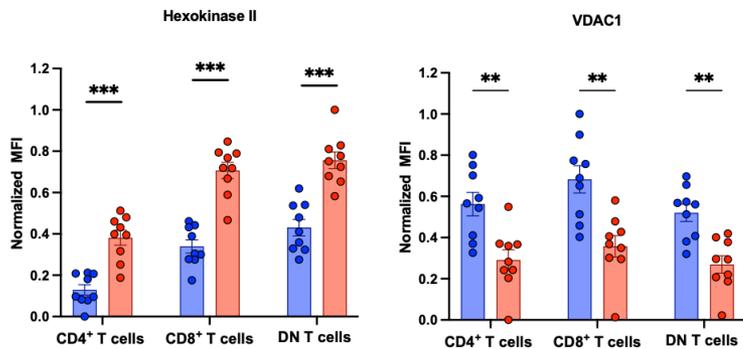


Figure 8. Effect of glutamine blockade on kidney T cell metabolism in ischemic AKI. JHU083 treatment upregulated hexokinase II and pS6 in T cells from post-ischemic kidneys. Statistical analyses were performed using two-tailed *t* test ($n = 9$ mice in each group). * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$.

DN, double-negative; GLS, glutaminase; pS6, phospho-S6 ribosomal protein.

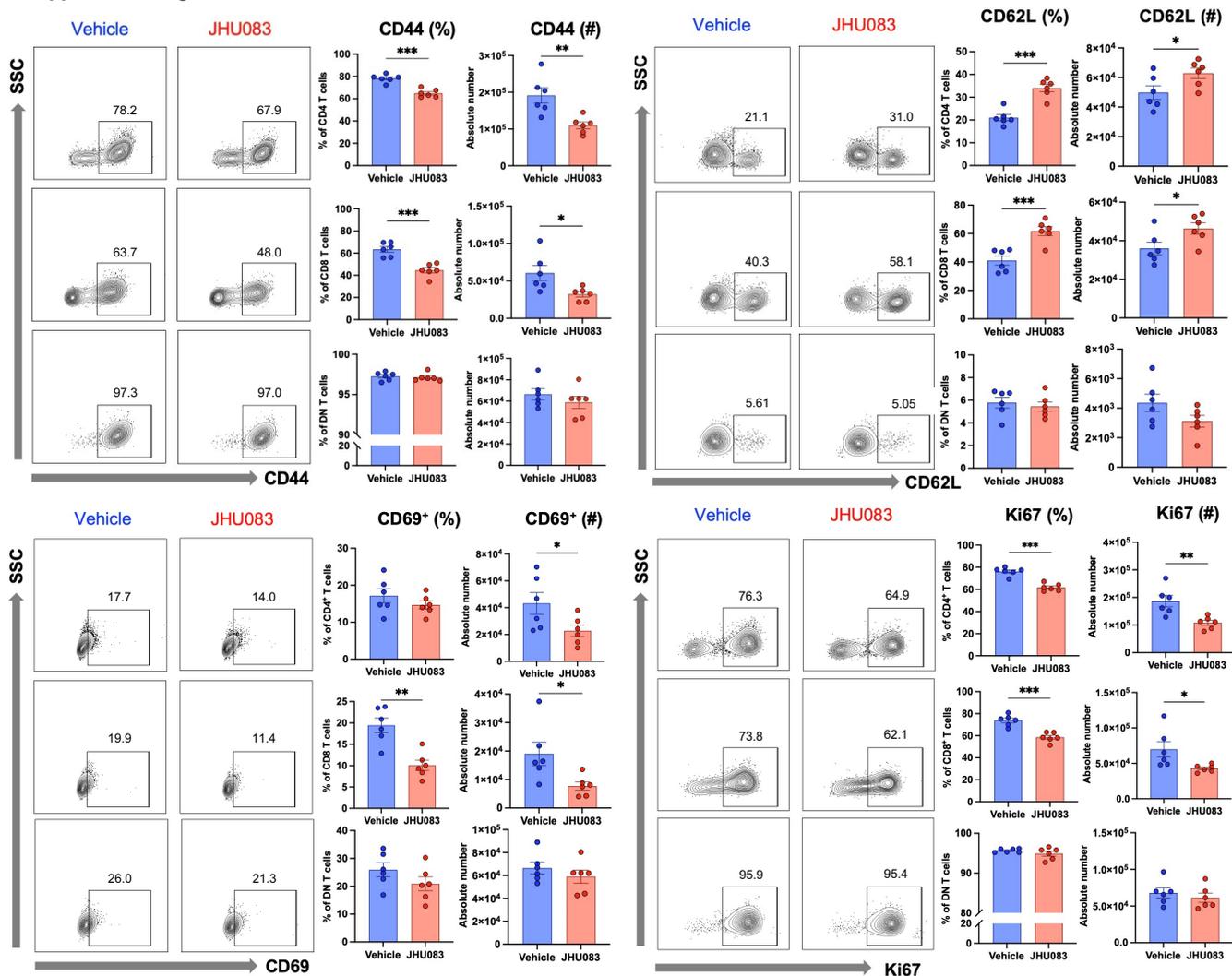
Supplemental Figure 5



Supplemental Figure 5. Effect of glutamine blockade on splenic T cell metabolism in ischemic AKI. JHU083 treatment upregulated hexokinase II and downregulated VDAC1 in post-AKI splenic T cells. Statistical analyses were performed using two-tailed *t* test ($n = 9$ mice in each group). * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$.

DN, double-negative; VDAC1, voltage-dependent anion channel 1.

Supplemental Figure 6



Supplemental Figure 6. Effects of glutamine blockade on T cell phenotypes in normal steady state kidneys. JHU083 treatment reduced CD44 expression and increased CD62L expression on CD4⁺ and CD8⁺ T cells in normal kidneys, indicating glutamine blockade reduced effector-memory phenotypes. CD69 expression was reduced in CD8⁺ T cells from the JHU083 treated mice. Ki67 expression was reduced in CD4⁺ and CD8⁺ T cells from JHU083 treated normal kidneys. Statistical analyses were performed using two-tailed *t* test ($n = 6$ mice in each group). * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$.

DN, double-negative.