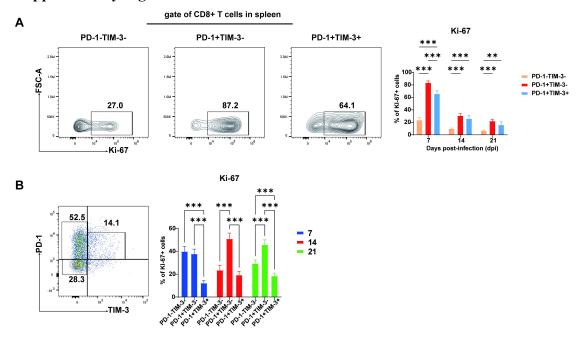


# Supplementary Figure 1 (related to Figure 1).

Statistical graphs depicting the percentages of PD-1-TIM-3-, PD-1+TIM-3-, and PD-1-TIM-3+ cells within CD8+ T cells in: (A) Peripheral blood, (B) Lymph nodes and (C) Spleen. Representative results from repeated experiments are shown. The data are presented as arithmetic means  $\pm$  SEMs. \*, P < 0.05; \*\*, P < 0.01; \*\*\*, P < 0.001.

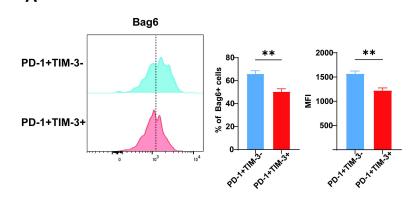
#### **Supplementary Figure 2**



### Supplementary Figure 2 (related to Figure 2).

(A) Representative flow cytometry plots (left) and statistical graph of the proportion of Ki-67 positivity rate in different CD8<sup>+</sup> T cell subsets (right) are shown. (B) A representative flow cytometry plot and frequencies of P3-infected mouse spleens gated on Ki-67<sup>+</sup> cells at 7, 14, and 21 dpi were analyzed for different CD8<sup>+</sup> subsets. Representative results from repeated experiments are shown. The data are presented as arithmetic means  $\pm$  SEMs. \*, P < 0.05; \*\*, P < 0.01; \*\*\*, P < 0.001.

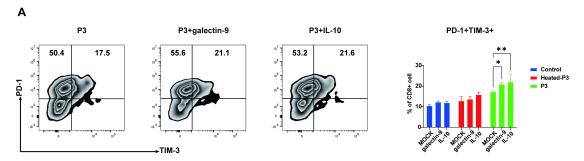
# Supplementary Figure 3 A



# **Supplementary Figure 3 (related to Figure 5).**

(A) Representative flow cytometry histograms (left), frequency (middle) and MFI (right) of Bag6 staining in CD8<sup>+</sup> T cells are shown. Representative results from repeated experiments are shown. The data are presented as arithmetic means  $\pm$  SEMs. \*, P < 0.05; \*\*, P < 0.01; \*\*\*, P < 0.001.

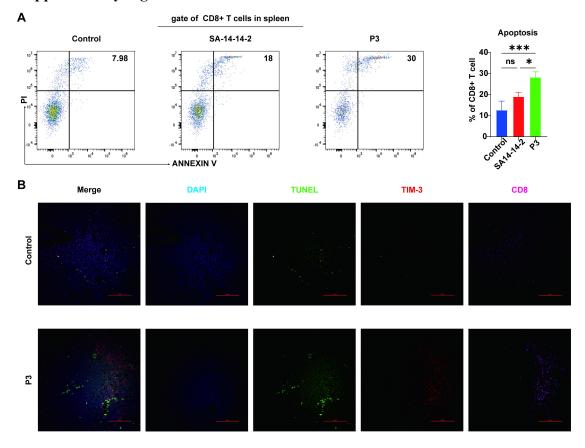
# **Supplementary Figure 4**



## Supplementary Figure 4 (related to Figure 5).

Galectin-9 (10 ng/ml) and IL-10 (10 ng/ml) were added to the culture medium of splenocytes infected with P3 or heated-P3 (MOI of 1). (A) Flow cytometry plots and frequencies of PD-1-TIM-3-, PD-1+TIM-3-, and PD-1+TIM-3+ cells within CD8+ T cells in the P3-infected splenocyte population. Representative results from repeated experiments are shown. The data are presented as arithmetic means  $\pm$  SEMs. \*, P < 0.05; \*\*, P < 0.01; \*\*\*, P < 0.001.

#### **Supplementary Figure 5**



#### Supplementary Figure 5 (related to Figure 6).

- (A) Representative flow cytometry plots and frequencies of CD8<sup>+</sup> T cells from the spleens of control, SA14-14-2 and P3-infected mice were stained with PI and Annexin V. Representative results from repeated experiments are shown. The data are presented as arithmetic means  $\pm$  SEMs. ns, not significant; \*, P < 0.05; \*\*, P < 0.01; \*\*\*, P < 0.001.
- (B) TUNEL staining results of spleens from control and P3-infected mice. The representative DAPI (blue), TUNEL (green), TIM-3 (red), and CD8 (pink) staining results of spleens from mice in the control and P3-infected groups; scale bar = 100  $\mu m$ .