

Mast cell activation triggered by retrovirus promotes acute viral infection

Supplementary Figure legends

Figure S1. Immune cells population. C57BL/6 and Sash mice were infected i.p. with MuLV/Friend (1×10^9 copies) for indicated times, the frequencies of CD4⁺ T, CD8⁺ T and NK cells in spleen were quantified. One-way ANOVA was performed to analyze significance differences. Data are presented as mean \pm SD. * $p < 0.05$, ** $p < 0.01$ and *** $p < 0.001$ are considered significant differences.

Figure S2. BMMCs reconstruction. BMMCs (5×10^6) were injected i.v. into Sash mice to reconstruct MCs. The splenic c-Kit⁺ Fc ϵ RI⁺ MCs were quantified. Data from one representative mouse are shown.

Figure S3. MDSCs profile. Mice of WT, Sash and Sash/BMBCs were infected i.p. with MuLV/Friend (1×10^9 copies) for 5 d, (A) the expressions of PD-L1 and CD39 in G-MDSCs were measured with flow cytometry. Data from one representative mouse are shown, (B) the frequency and phenotype of splenic M-MDSCs were profiled. One-way ANOVA was performed to analyze significance differences. Data are presented as mean \pm SD. * $p < 0.05$ and *** $p < 0.001$ are considered significant differences.

Figure S4. M-MDSCs in C48/80-treated infected mice. C57BL/6 mice was administered with C48/80 (1 mg/kg) along with MuLV/Friend i.p. infection (1×10^9 copies). At 5dpi, the phenotypes of splenic M-MDSCs were profiled. One-way

ANOVA was performed to analyze significance differences. Data are presented as mean \pm SD. *** $p < 0.001$ is considered significant differences.

Figure S5. Phenotypes of M-MDSCs in histamine-treated infected mice. WT

C57BL/6 mice were administrated with histamine (2.5 mg/kg) via i.p. during viral infection as above, at 5 dpi, the phenotypes of M-MDSCs in spleen were profiled.

Figure S6. Phenotypes of M-MDSCs in Ebastine- or Loratadine-treated infected

mice. C57BL/6 mice were infected i.p. with MuLV/Friend (1×10^9 copies), and Ebastine (5mg/kg) or Loratadine(10mg/kg) was administered 1 day before infection and continued daily throughout infection. At 5 dpi, the phenotypes of M-MDSCs in spleen were profiled. One-way ANOVA was performed to analyze significance differences. Data are presented as mean \pm SD. ** $p < 0.01$ is considered significant differences.

Figure S1

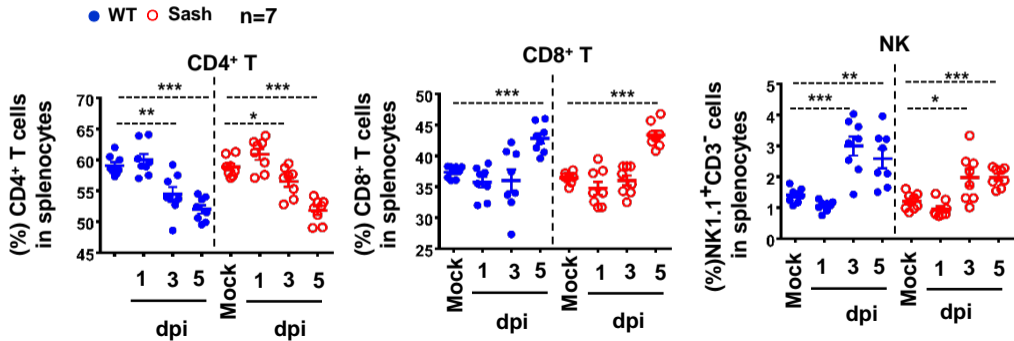


Figure S2

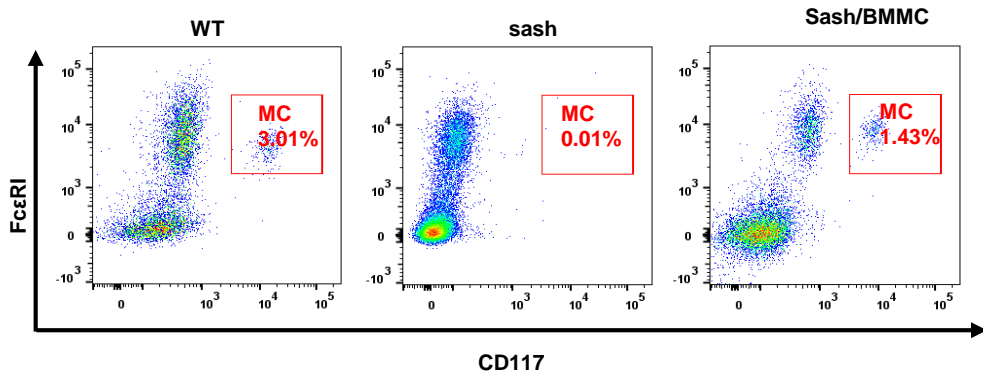
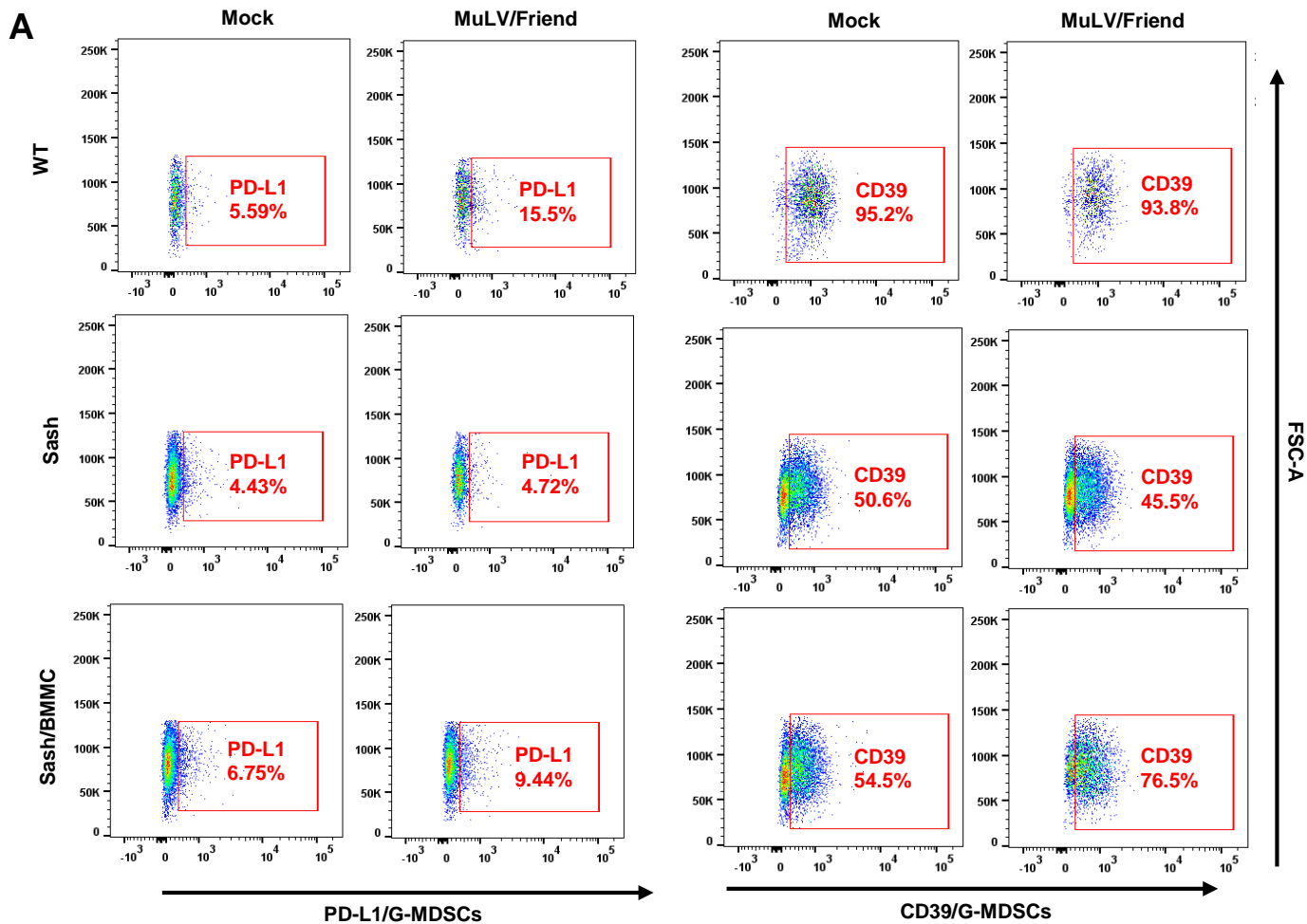


Figure S3



B

● WT ○ Sash ○ Sash/BMMC n=4

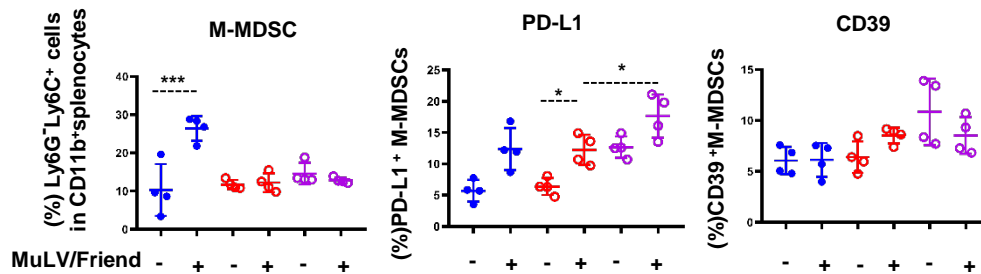


Figure S4

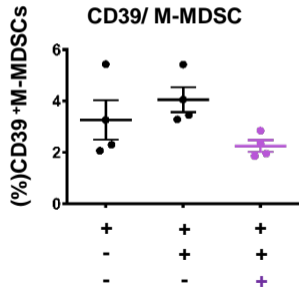
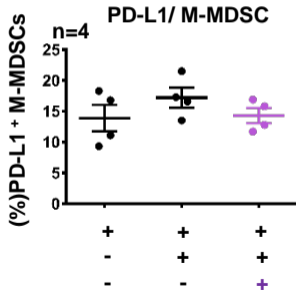
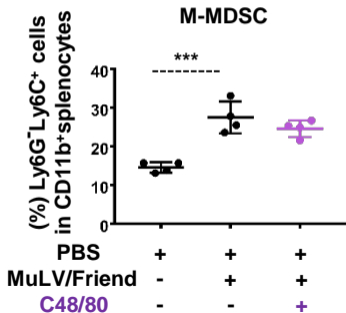


Figure S5

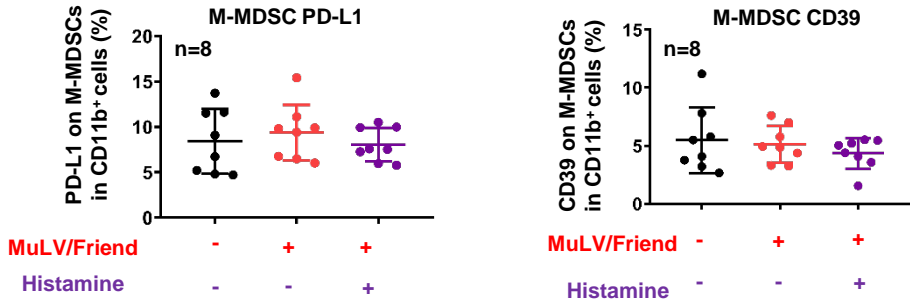


Figure S6

