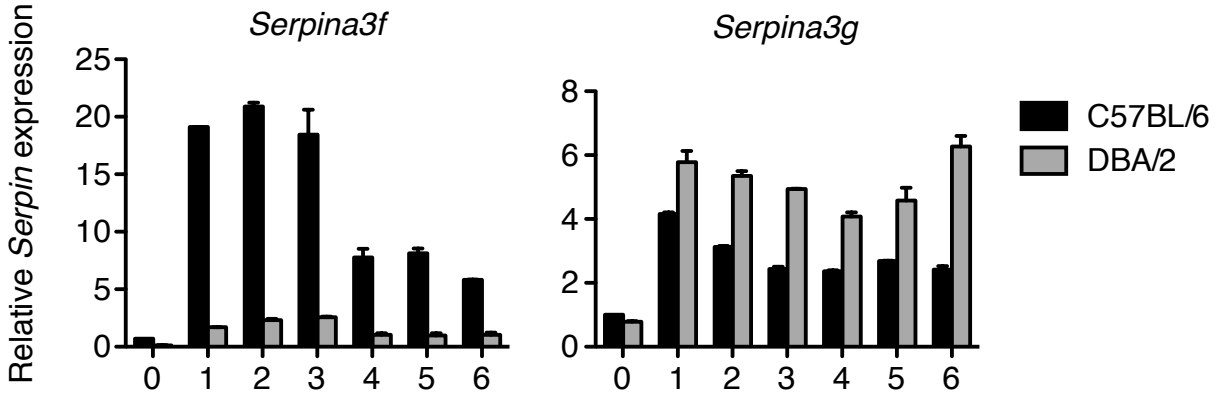
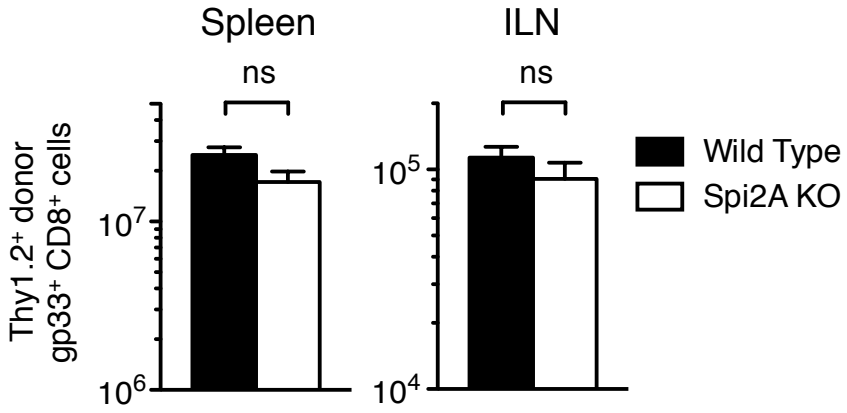
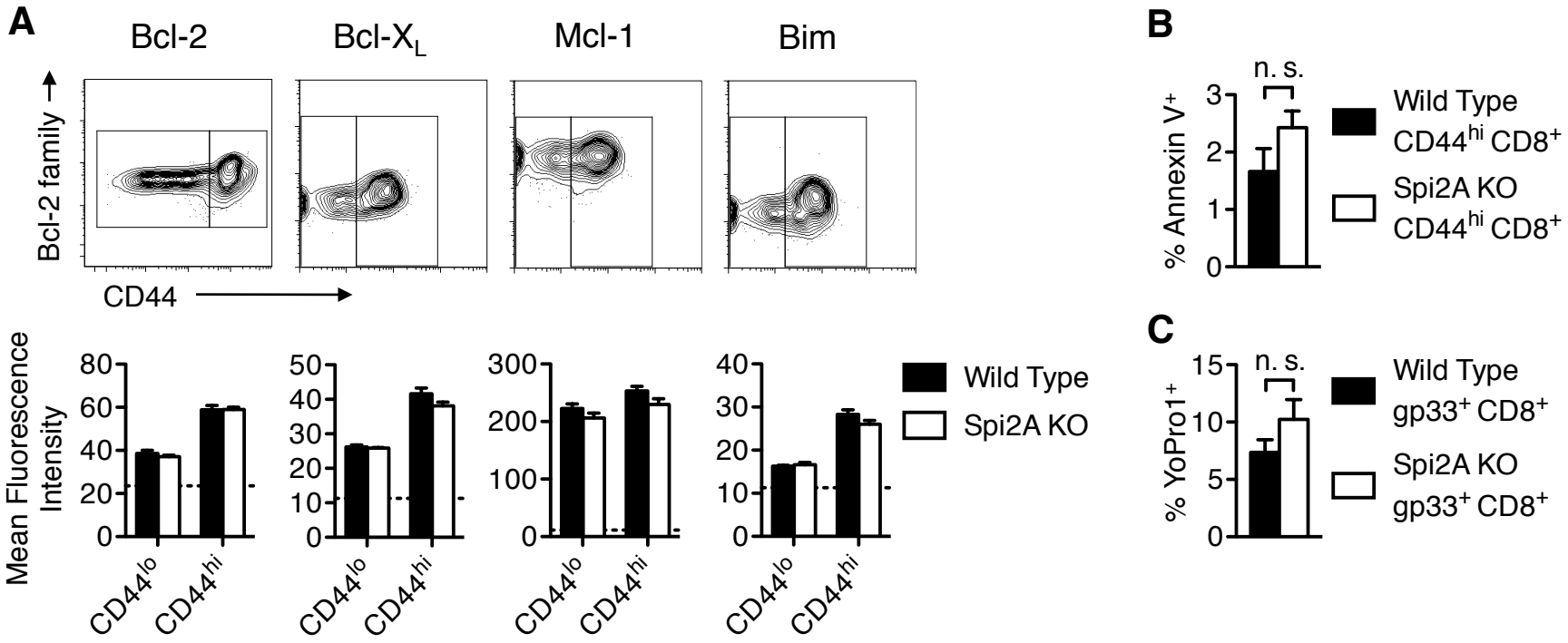


Supplemental Figure 1. Activated splenocytes upregulate *Serpina3g* and *Serpina3f* expression.
Splenocytes from C57BL/6 or DBA/2 mice were cultured for the indicated periods in 10 μg / ml concanavalin A. Real time PCR using primers specific for *Serpina3g* or *Serpina3f* was performed on cDNA. The serpin expression levels were normalized against *β2microglobulin* expression levels. Data show mean ± SEM from n = 2 mice.



Supplemental Figure 2. Equivalent expansion of wild type and Spi2A-deficient memory gp33$^+$ CD8$^+$ cells
Gp33 Tetramer$^+$ CD8$^+$ splenocytes were isolated from Wild Type and Spi2A KO mice that had been previously infected with LCMV for >90 days and purified by FACS to >98% purity. 5000 memory gp33$^+$ CD8$^+$ cells were transferred into naive Thy1.1$^+$ congenic recipients, which were subsequently infected with LCMV. Eight days post infection, these mice were dissected and analyzed by flow cytometry. The number of Thy1.2$^+$ donor gp33$^+$ CD8$^+$ cells in the spleen and both inguinal lymph nodes (ILN) is shown. No significant difference (ns) was found in the expansion of Wild Type and Spi2A-deficient memory gp33$^+$ CD8$^+$ cells. Data show mean ± sem of n = 4 mice.



Supplemental Figure 3. Memory-phenotype CD44^{hi} CD8$^+$ T cells possess similar levels of Bcl-2 family members and both memory-phenotype and LCMV-specific memory CD8$^+$ cells undergo similar levels of cell death in wild type and Spi2A KO mice.

(**A**) Upper row: Representative intracellular flow cytometry staining of indicated Bcl-2 family members gated on wild type CD8$^+$ bone marrow cells. Lower row: Mean fluorescence intensity of the intracellular Bcl-2 family staining in the CD44^{lo} CD8$^+$ and CD44^{hi} CD8$^+$ populations. Dotted line indicates MFI of isotype control staining. (**B**) Proportion of Annexin V$^+$ cells within the bone marrow CD44^{hi} CD8$^+$ T cell population. (**C**) Wild type and Spi2A KO mice were infected with LCMV Armstrong. After > 130 days, bone marrow leukocytes were stained and analyzed by flow cytometry. The DNA dye YoPro-1 was used to detect apoptosis among CD8$^+$ gp33 Tetramer$^+$ cells.
Data show mean ± SEM of n = 5 mice. Significance values were calculated by Student's two-tailed t-test (n.s., $P > 0.05$) Results represent two independent experiments.