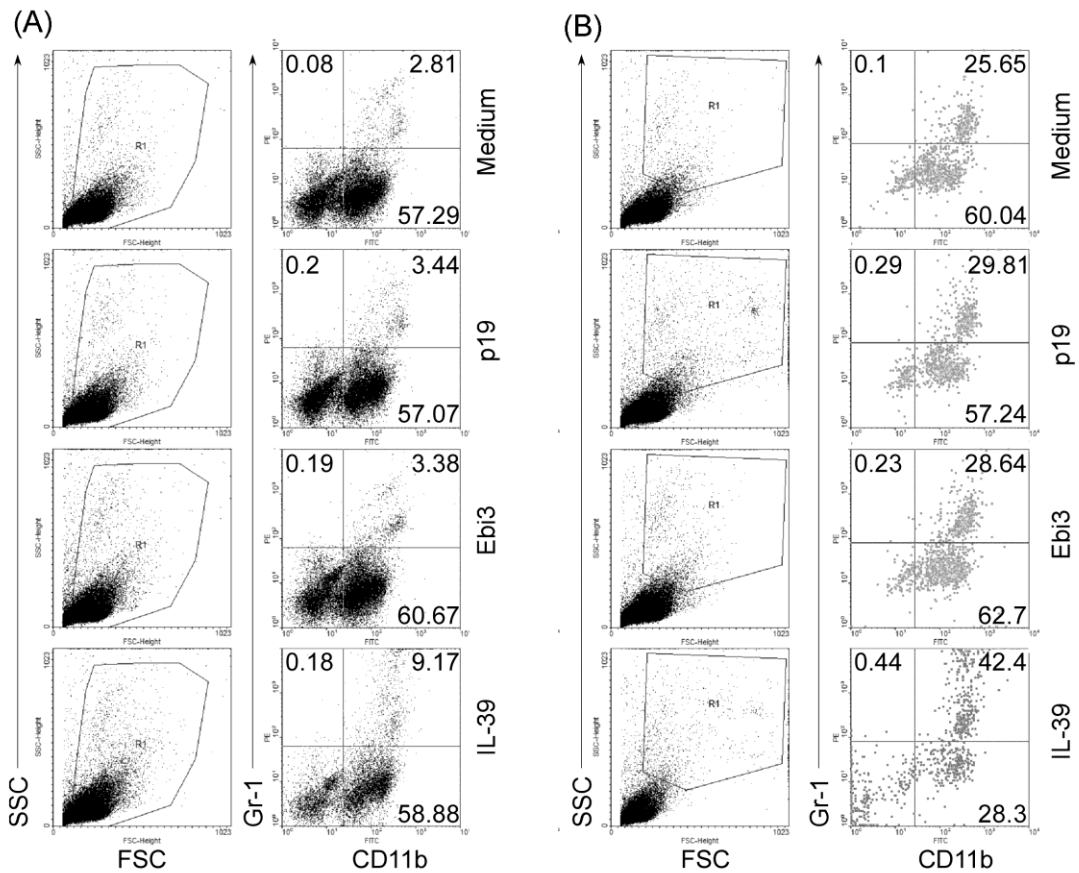
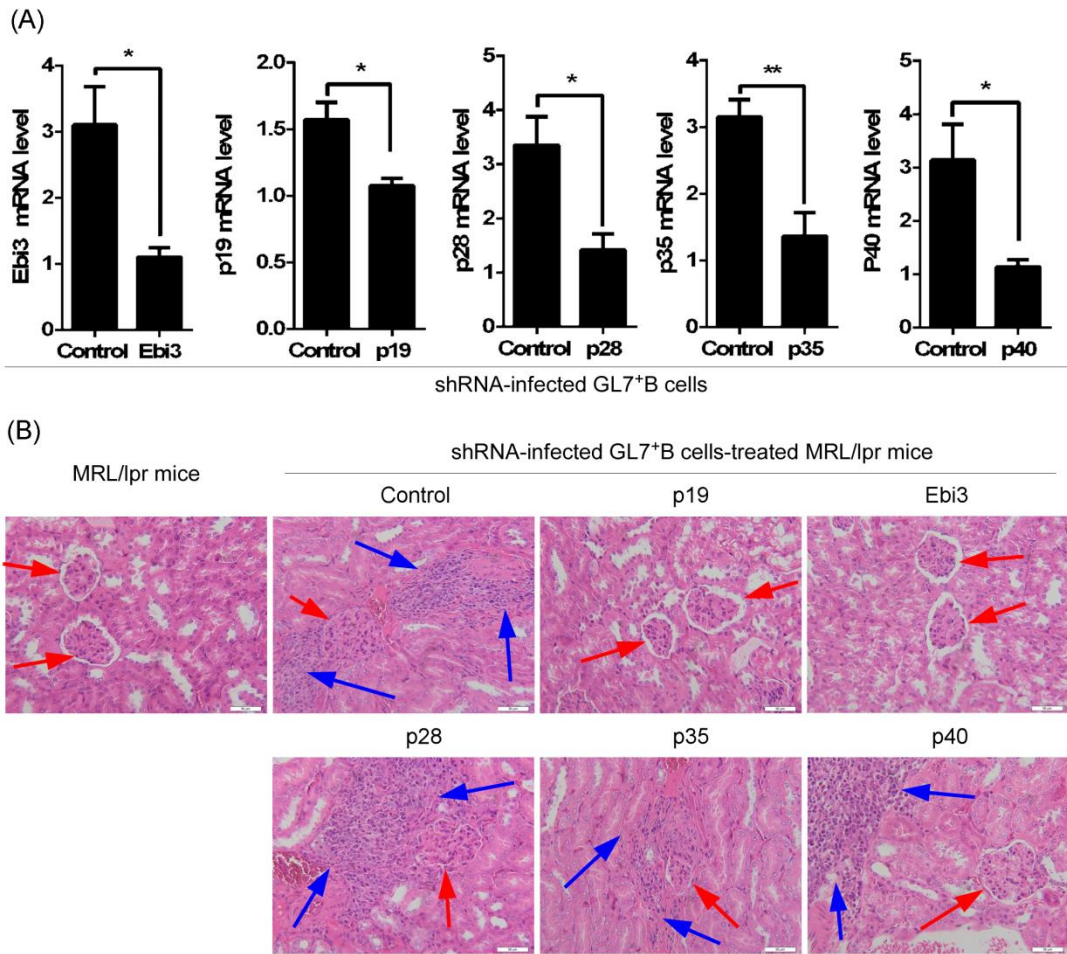


Supplementary Figure 1



Supplementary Figure 1. Gating strategy for IL-39-expanded/induced neutrophils. Splenocytes were separated from 8-week-old C57BL/6 mice and red blood cells were lysed using 1 x lysis buffer. Cells were washed and cultured for 3 days in the presence of medium, 50 ng/ml p19, Ebi3, or IL-39 and analyzed by FACS. All live cells **(A)** or large granule cells **(B)** were gated and the percentages of Gr-1⁺CD11b⁺ neutrophils are shown. Unless otherwise stated in other specific procedures, neutrophils were analyzed by gating all live cells **(A)**.

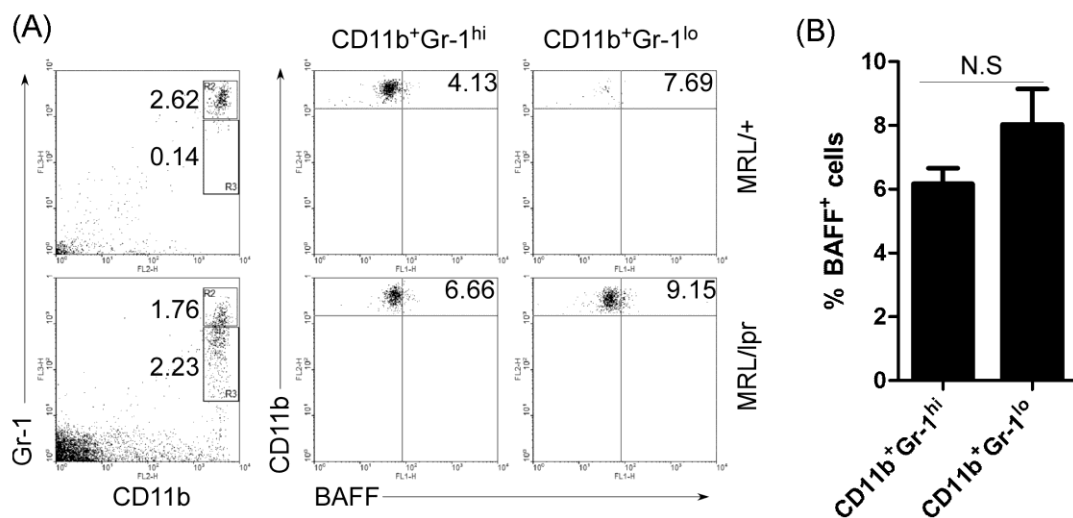
Supplementary Figure 2



Supplementary Figure 2. IL-39-deficiency reduced GL7⁺B-induced inflammatory cells infiltration into the kidney of lupus-prone MRL/lpr mice. GL7⁺B cells from 8-month-old female lupus-prone MRL/lpr mice were sorted by FACS and infected with control shRNA or IL-12 family subunits p28, p35 or p40, p19 or Ebi3-specific shRNA. On day 1 after infection, (A) p28, p35, p40, p19 and Ebi3 mRNA expression were analyzed by qPCR; (B) 5 X 10⁶ control, p28, p35, p40, p19 and Ebi3-specific shRNA-infected GL7⁺B cells per mouse were *i.v.* injected into 8-week-old female lupus-prone MRL/lpr mice (6 mice per group). Two weeks after treatment, kidney sections were stained with H&E. Red arrows show glomeruli; Blue arrows show infiltrating inflammatory cells. Scale bars, 50 μ M. (A) Data are shown as mean +

SEM (n=6) and are representative of three independent experiments. **(B)** Data represent at least three independent experiments. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$, **** $P < 0.0001$ (two-tailed student's t test).

Supplementary Figure 3



Supplementary Figure 3. BAFF-expressing CD11b⁺Gr-1^{hi} and CD11b⁺Gr-1^{lo} cells are similar. BAFF-expressing CD11b⁺Gr-1^{hi} and CD11b⁺Gr-1^{lo} cells from the splenocytes of 8-month-old female non-lupus-prone MRL/+ and lupus-prone MRL/lpr mice were analyzed by FACS. **(A)** The percentages of BAFF-expressing CD11b⁺Gr-1^{hi} and CD11b⁺Gr-1^{lo} neutrophils are shown. **(B)** The statistical analysis of the percentages BAFF-expressing CD11b⁺Gr-1^{hi} and CD11b⁺Gr-1^{lo} cells from lupus-prone MRL/lpr mice. Results represent at least three independent experiments. N.S represents no significance (two-tailed student's t test). Error bars, s.e.m.