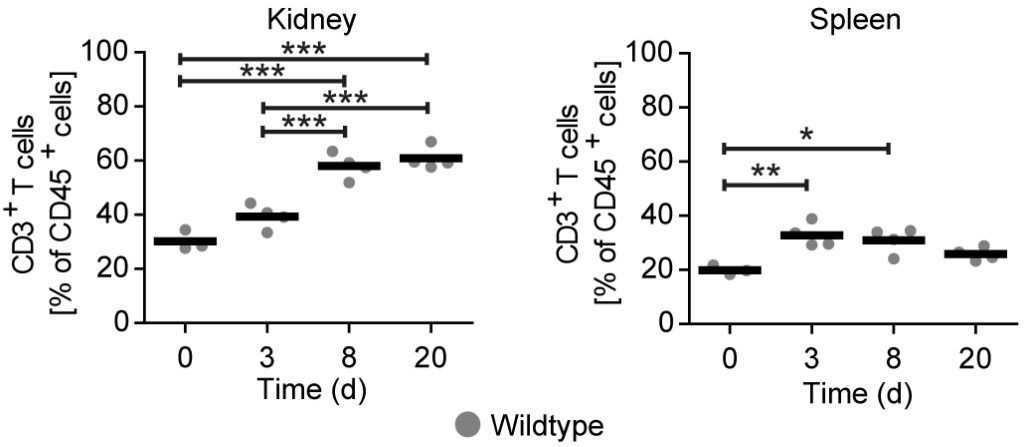
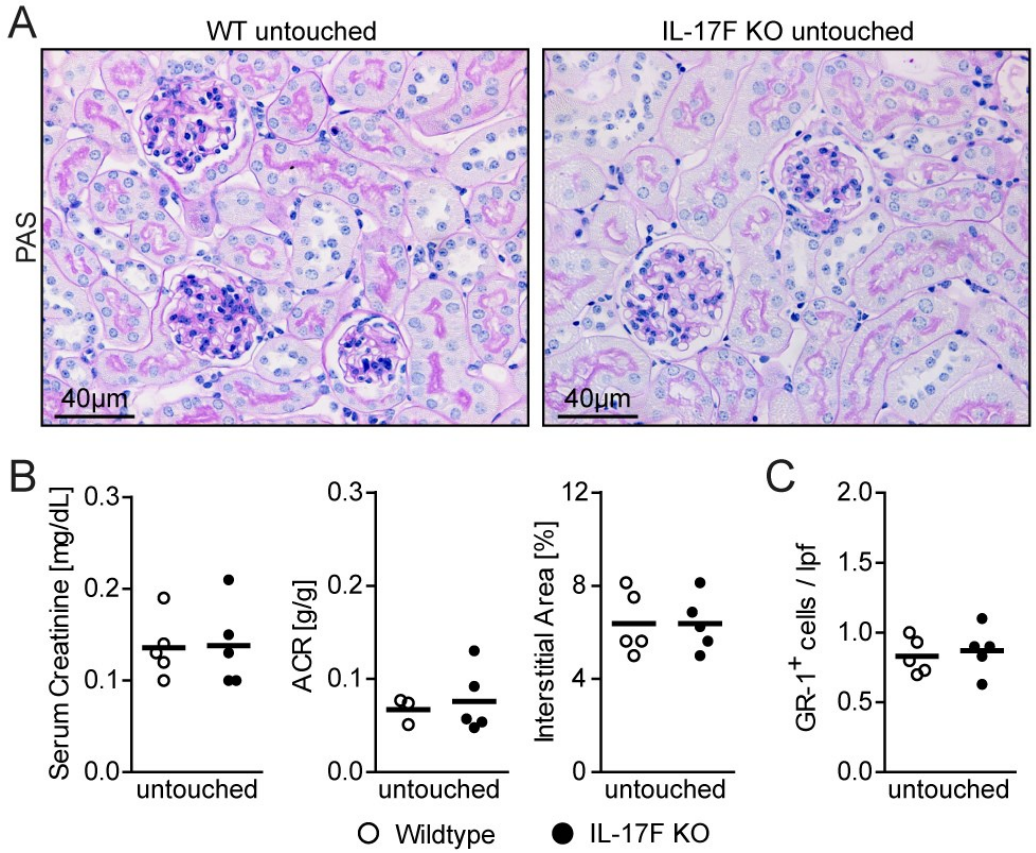
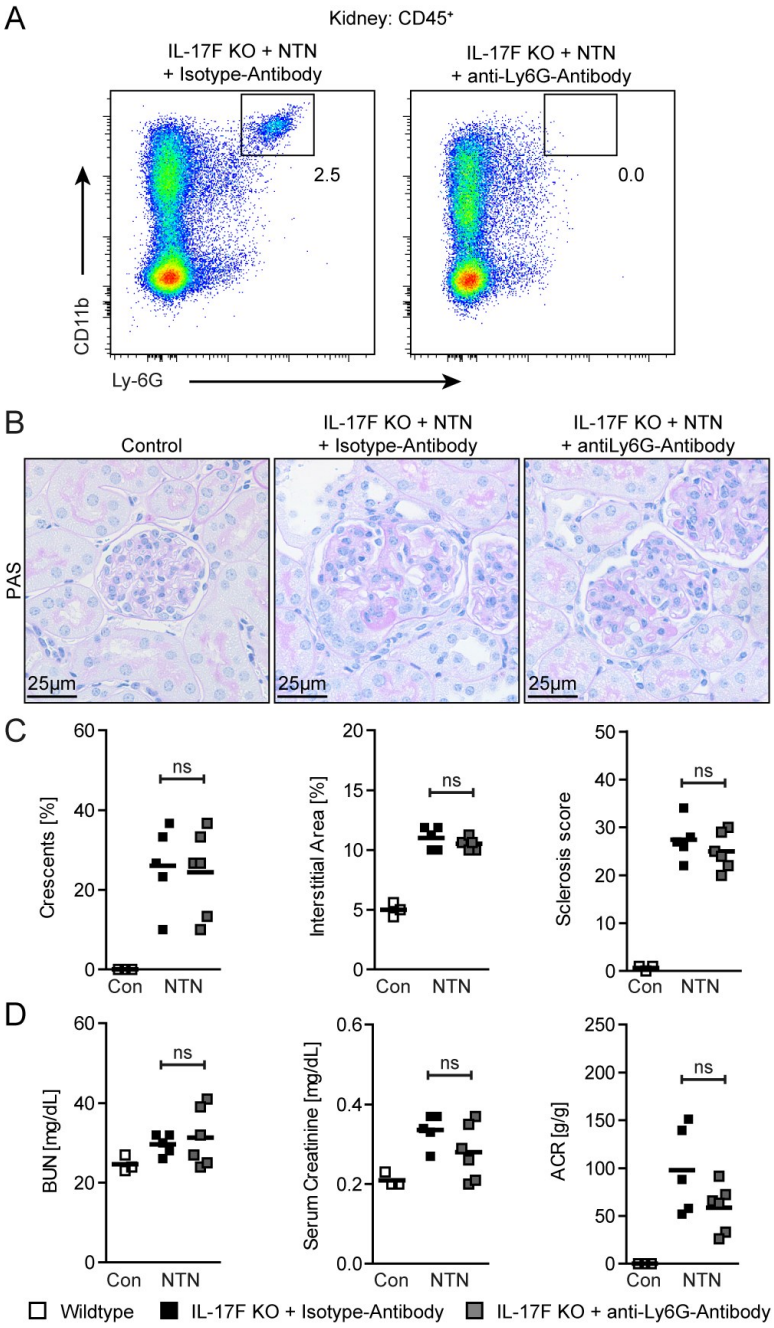


Supplemental Figure 1. Time course of renal and splenic CD3$^+$ T cells in NTN
(A) Quantification of renal and splenic CD3$^+$ T cells in percent of CD45$^+$ live cells in the course of NTN in wildtype mice at indicated time points; n=3-4/time point. Symbols represent individual data points with the mean as horizontal line (* P<0.05, ** P<0.01, *** P<0.001).

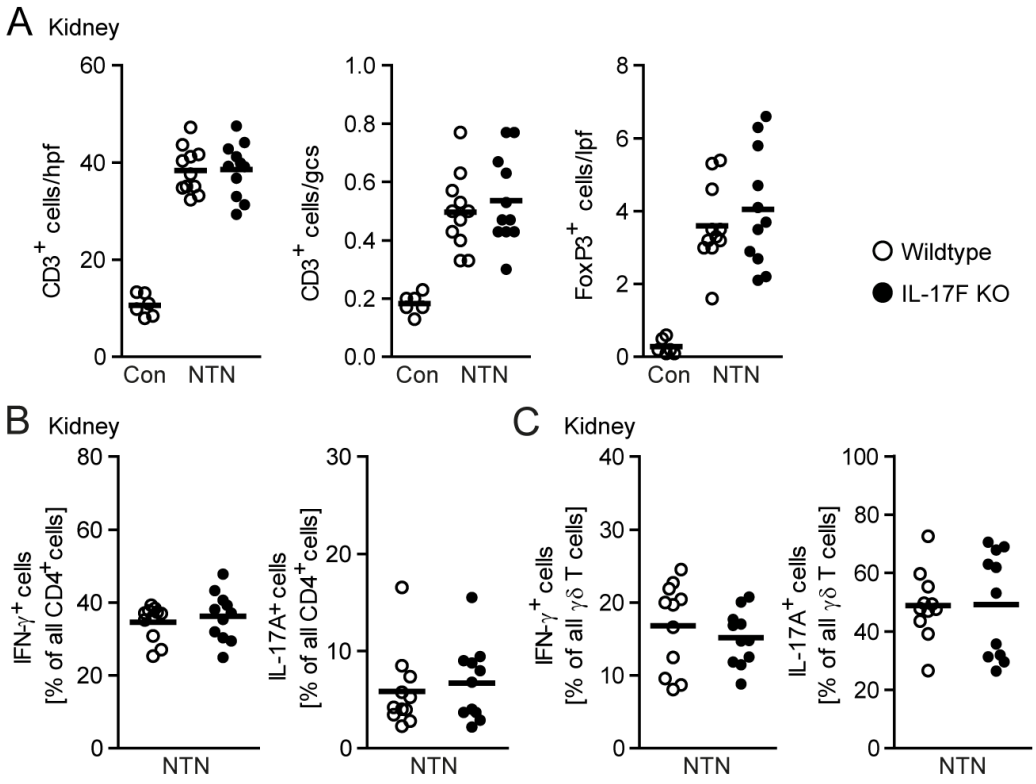


Supplemental Figure 2. The ameliorated course of nephritis in IL-17F-deficient mice (A) Representative photographs of PAS-stained kidney sections from untouched wildtype mice and untouched IL-17F-deficient mice (original magnification ×400). (B) Serum creatinine levels, urinary albumin-to-creatinine ratio, and quantification of interstitial area of the aforementioned groups. (C) Quantification of tubulointerstitial GR-1$^+$ cells of the aforementioned groups. N=3-5/group; symbols represent individual data points with the mean as horizontal line.

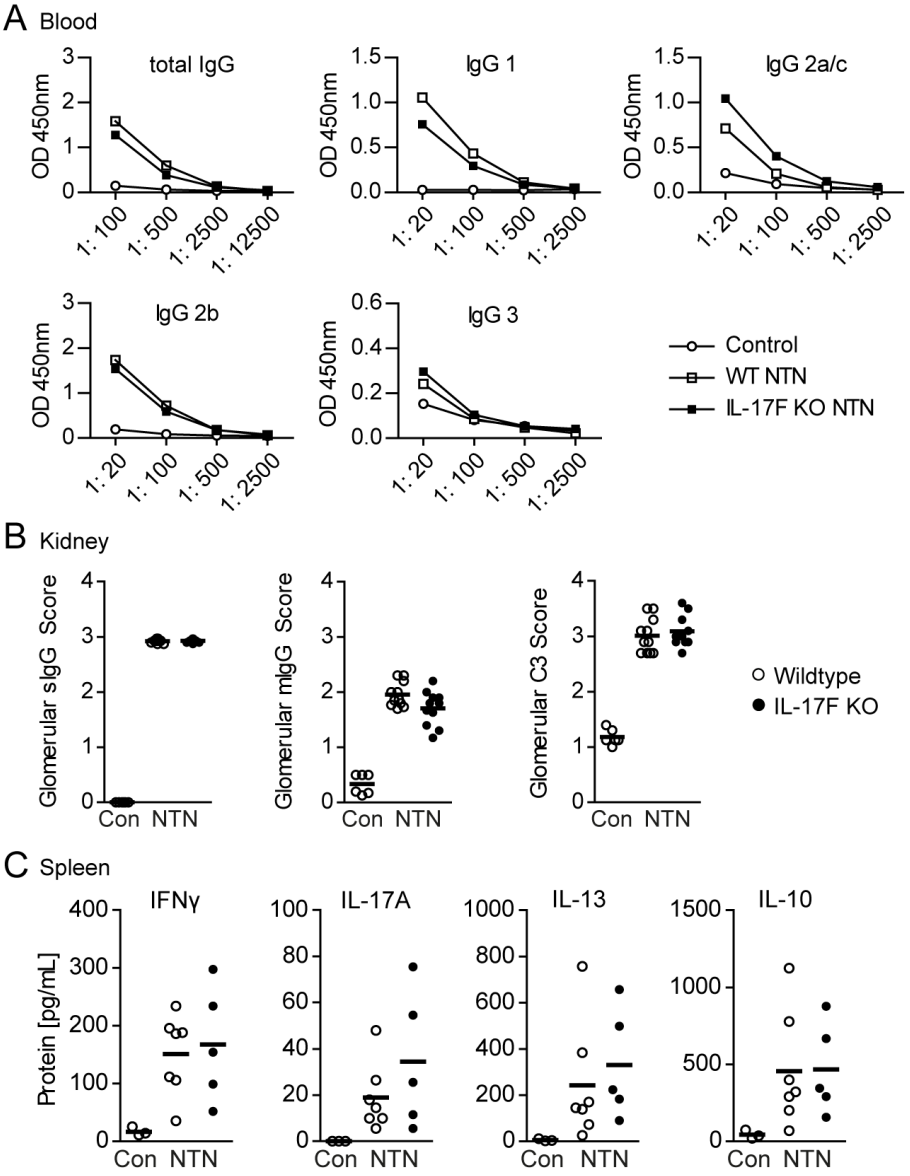


Supplemental Figure 3. The ameliorated course of nephritis in IL-17F-deficient mice is neutrophil dependent

(A) Representative FACS-plots showing renal neutrophils (defined as $CD45^+CD11b^+Ly6G^+$ cells) in nephritic IL-17F-deficient mice treated with Isotype-antibody and nephritic IL-17F-deficient mice treated with anti-Ly6G-antibody. (B) Representative photographs of PAS-stained kidney sections from control mice (n=3), nephritic IL-17F-deficient mice treated with Isotype-antibody (n=5), and nephritic IL-17F-deficient mice treated with anti-Ly6G-antibody (n=6) (original magnification ×400). (C) Quantification of glomerular crescent formation, interstitial area, and glomerular sclerosis of the aforementioned groups 8 days after induction of nephritis. (D) BUN levels, serum creatinine, and albumin-to-creatinine ratio of the aforementioned groups 8 days after induction of nephritis. Symbols represent individual data points with the mean as horizontal line.



Supplemental Figure 4. Renal T cell immune response
(A) Quantification of tubulointerstitial $CD3^+$ T cells, glomerular $CD3^+$ T cells, and tubulointerstitial $FoxP3^+$ T cells of controls (n=6), nephritic wildtype (n=11), and nephritic IL-17F-deficient mice (n=11) 8 days after induction of nephritis. (B-C) Quantification of FACS analyses of renal $IFN\gamma^+$ and $IL\text{-}17A^+$ $CD4^+$ T cells (B) and renal $IFN\gamma^+$ and $IL\text{-}17A^+$ γδ T cells (C) of the aforementioned groups 8 days after induction of nephritis. Symbols represent individual data points with the mean as horizontal.



Supplemental Figure 5. Humoral and systemic immune responses
(A) ELISA-analyses of circulating serum mouse anti-sheep total IgG-, IgG1-, IgG2a/2c-, IgG2b-, and IgG3-levels at different dilutions from controls (n=6), nephritic wildtype (n=11), and nephritic IL-17F-deficient mice (n=11) 8 days after induction of nephritis. (B) Quantification of glomerular sheep-IgG-, glomerular mouse-IgG-, and glomerular C3-deposition from controls (n=6), nephritic wildtype (n=11), and nephritic IL-17F-deficient mice (n=11) 8 days after induction of nephritis. (C) Cytometric bead assay (CBA) measured cytokine levels of supernatants of sheep IgG-stimulated spleen cells cultured for 72h from controls (n=3), nephritic wildtype (n=7), and nephritic IL-17F-deficient mice (n=5) 8 days after induction of nephritis. Symbols represent mean values connected by lines or individual data points with the mean as horizontal line.