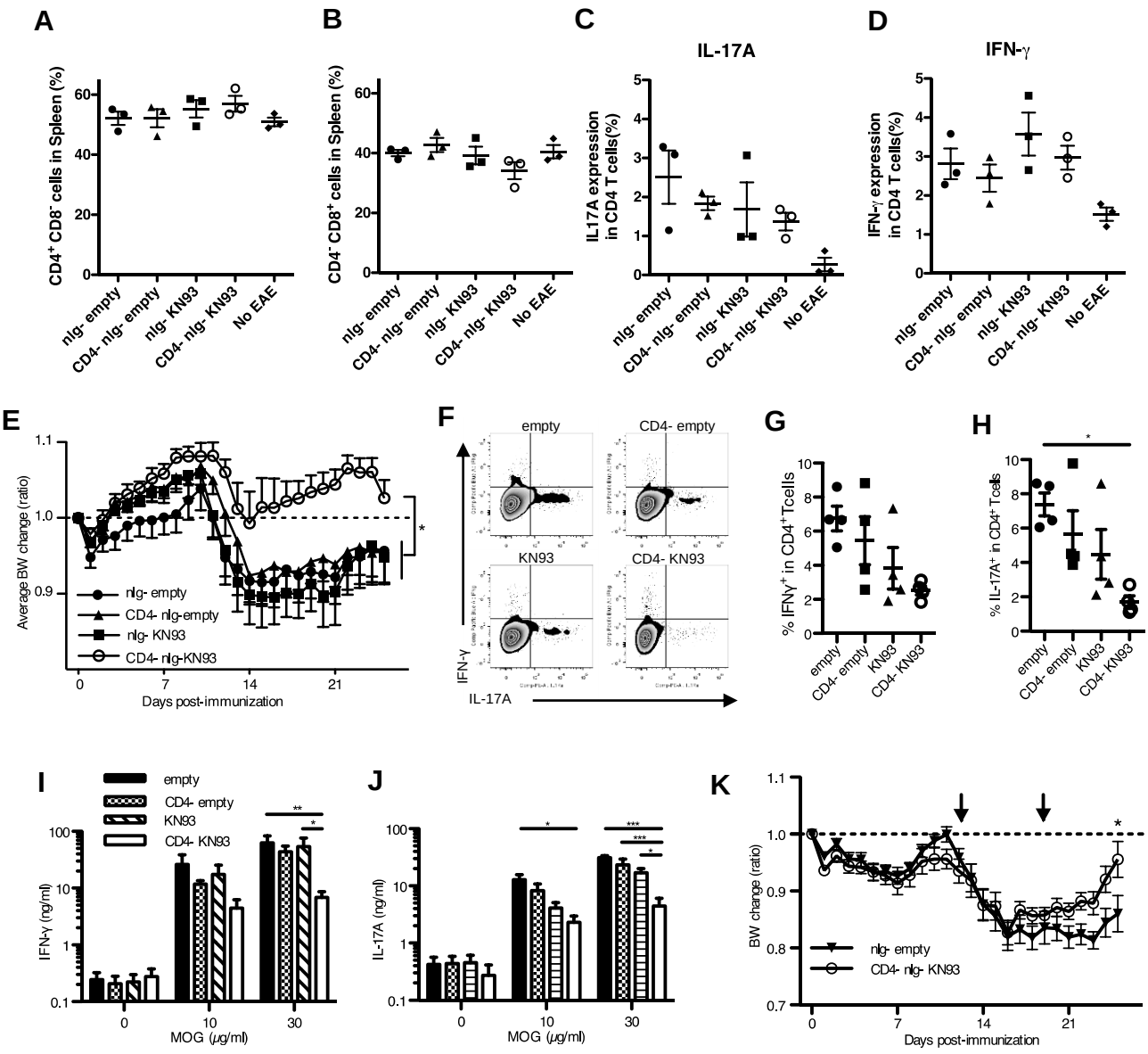
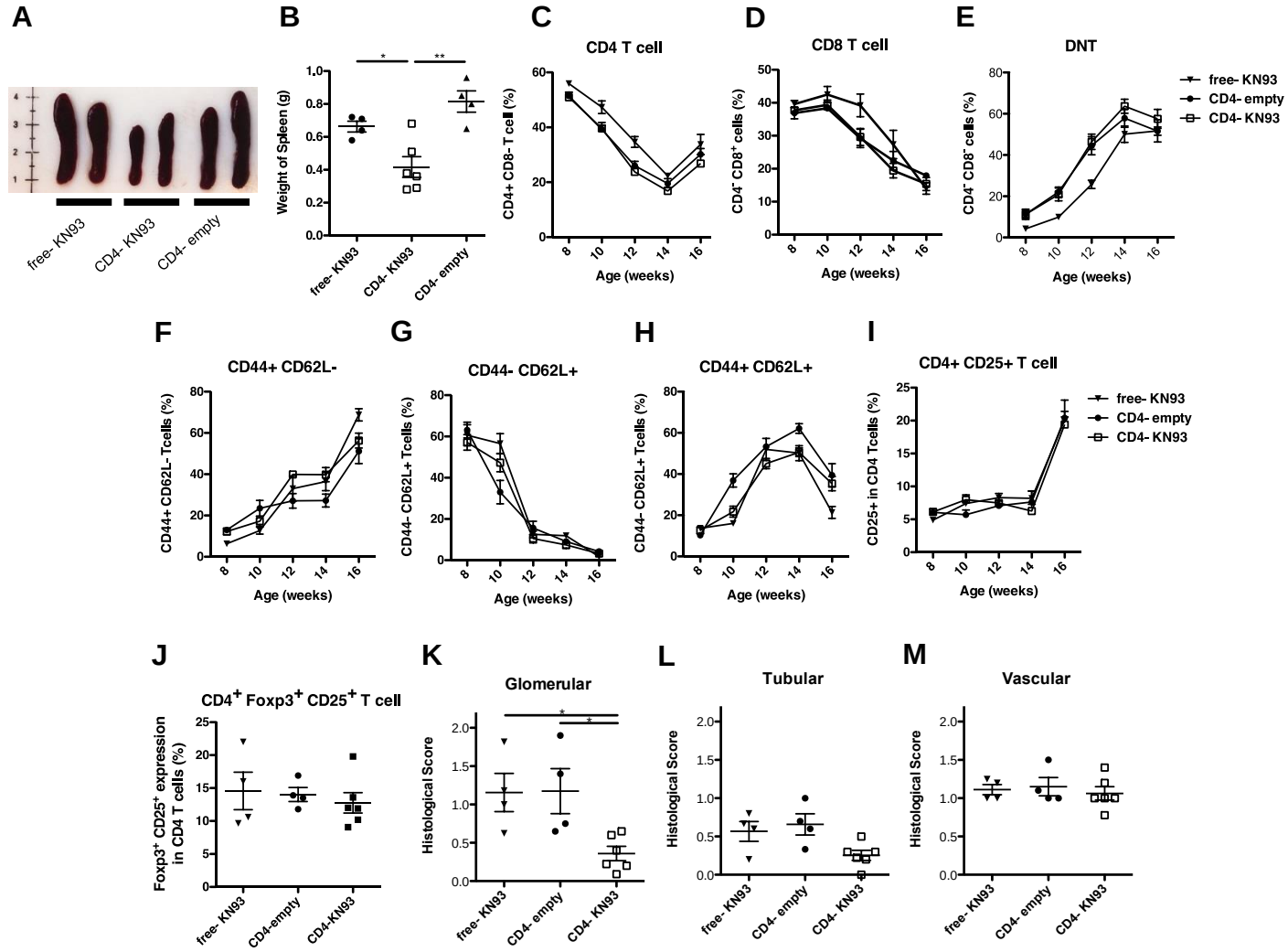


Supplemental Figure S1. (**A and B**) The mean ratio of CD4 or CD8 positive lymphocyte in spleen from the treated mice 14 days after immunization or the normal B6 mice (No EAE) for negative control. (**C and D**) Intracellular staining of IFN-γ and IL-17A from spleen- derived $CD4^+$ T cells from each treatment group. Each symbol represents an independent experiment. (**E**) The Average body weight (BW) change in the experiment shown in Fig. **2A**. (**F - J**) Mice were immunized with 50 μg $MOG_{35–55}$ peptide and injected i.p. with anti CD4 antibody coated nlg- KN-93 or control nlg. Seven days after the immunization, the part of single cells from the draining lymph nodes (dLN) were analyzed by flow cytometry (**F - H**) and 5×10^5 cells of these were stimulated for 72 hours with various concentrations of $MOG_{35–55}$. followed by ELISA (**I and J**). The frequencies of IFN-γ (**G**) and IL-17A (**H**) producing $CD4^+$ T cells in dLN are shown. Data are from one experiment representative of two independent experiments (n=4 per group) (**F**). The average concentrations of IFN-γ (**I**) and IL-17A (**J**) in the supernatants determined by ELISA are shown. Results are representative of two independent experiments (n=4 per group). (**K**) The Average body weight (BW) change in the experiment shown in Fig. **2G**. Error bars represent the mean ± SEM. *P < 0.05, **P < 0.01, *** P < 0.001 by 1way ANOVA(**H - J**) or 2way ANOVA(**E and K**) with Bonferroni's post- test.



Supplemental Figure S2. (**A**) The picture of spleens from each treatment group at 16 weeks of age. (**B**) The scatter blots for weight of spleen from the mice treated with each indicated treatment. (**C - E**) Anti-CD4 antibody-coated nlg- KN-93 had no effect on the distribution of T cell subsets in the peripheral blood of MRL/lpr mice. The mean ratio of $CD4^+$, $CD8^+$ or double negative T cells treated with free KN-93 (10μg/week/mouse), anti CD4 antibody coated nlg- empty (CD4- nlg- empty) and CD4- nlg- KN-93 (10μg of KN93/week/mouse) analyzed by Flow cytometry biweekly. (**F - H**) The mean ratio of $CD44^+$ and/or $CD62L^+$ cells in $CD4^+$ T cells in peripheral blood of each treatment group using flow cytometry. (**I**) Mean ratio of $CD25^+$ $CD4^+$ T cells in peripheral blood in each group biweekly within the observation periods. (**J**) Mean ratio of both $CD25^+$ and $FOXP3^+$ cells in $CD4^+$ T cells in spleen at 16 week-age mice treated with indicated drugs. (**K - M**) The mean histological score of glomerular injury, tubular damage, and perivascular lymphocyte infiltration on kidneys from the indicated treatment groups. Error bars represent the mean ± SEM. Representative data of 3 independent experiments are shown (n=4-6 mice per group). * $P < 0.05$, ** $P < 0.01$ by 1way ANOVA with Bonferroni's post-test.