

Figure S1. Extended data on *C. rodentium* infection in intestinal IL-17R deficient mice. (A) Bacteria burdens at day 7 and day 14 post *C. rodentium* infection in *Il17ra*^{fl/fl} villin cre⁺ and littermate cre⁻ mice (n=8 per group). (B) *C. rodentium* mRNA expression in the colon day 14 post infection in *Il17ra*^{fl/fl} villin cre⁺ and littermate cre⁻ mice (n=8 per group). (C) Anti-*C. rodentium* specific IgA and IgG antibody secreting cells in spleen and bone marrow were measured by Elispot in *Il17ra*^{fl/fl} villin cre⁺ and littermate cre⁻ mice at day 28 post *C. rodentium* infection (n=4 per group). (D) Anti-*C. rodentium* specific IgA and IgG antibody secreting cells in spleen and bone marrow were measured by Elispot in *Il17rc*^{fl/fl} villin cre⁺ and littermate cre⁻ mice at day 28 post *C. rodentium* infection (n=4 per group). (A and B) Significant differences are designated by using 2-tailed Student's t test. *, p < 0.05. Values are means ± SEM.

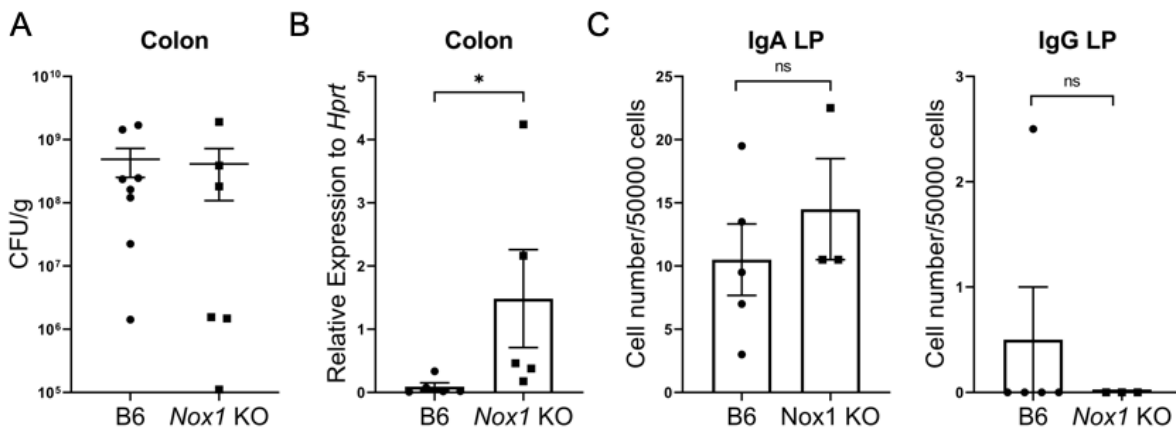


Figure S2. Nox1 deficiency does not affect generation of *C. rodentium* specific antibodies.

(A) Bacteria burden at 14 days post *C. rodentium* infection in *Nox1* KO mice and control B6 (n=8 per group). (B) *C. rodentium* mRNA expression in the colons of infected B6 or *Nox1*^{-/-} mice (n=8 per group). (C) Anti-*C. rodentium* specific IgA and IgG antibody secreting cells in the colonic lamina propria were measured by Elispot in infected *Nox1* KO mice and control B6 mice, 14 days post-infection (n=4 per group). Significant differences are designated by using 2-tailed Student's t test. ns, non-significant difference; *, p < 0.05. Values are means ± SEM.

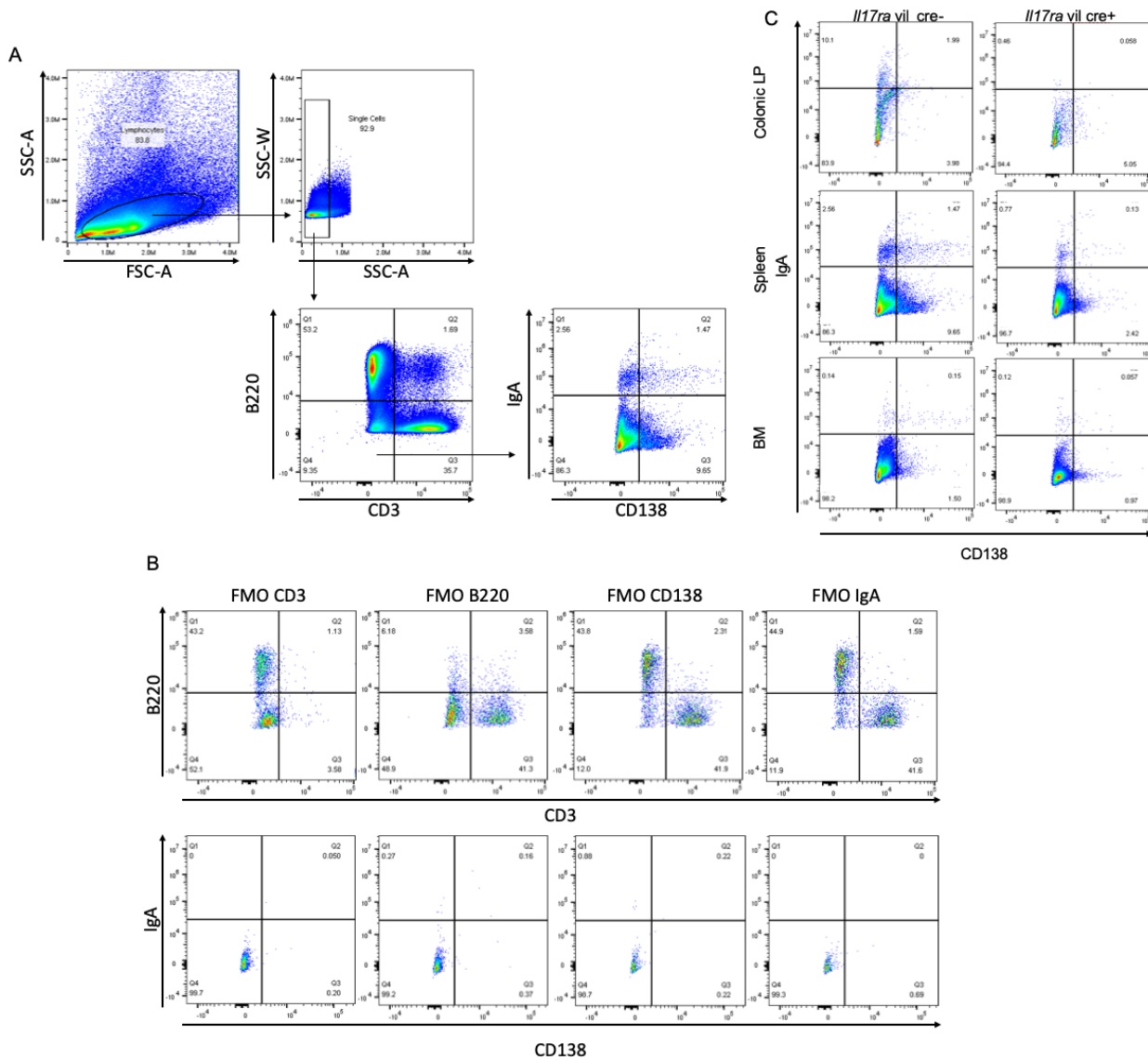


Figure S3 Plasma cell gating strategy.

(A) CD138⁺ IgA⁺ cells in the spleen were gated on CD3⁻ and B220⁻ by FACS after *Il17ra*^{fl/fl} villin cre⁻ mice were infected orally with *C. rodentium* for 14 days. (B) The indicated antibody was replaced by isotype control antibody as Fluorescence Minus One (FMO) Control. The cells were collected from spleen after *Il17ra*^{fl/fl} villin cre⁻ mice were infected orally with *C. rodentium* for 14 days. (C) CD138⁺ IgA⁺ cells in spleen, BM and lamina propria were gated on CD3⁻ and B220⁻ by FACS after *Il17ra*^{fl/fl} villin cre⁻ mice were infected orally with *C. rodentium* for 14 days.