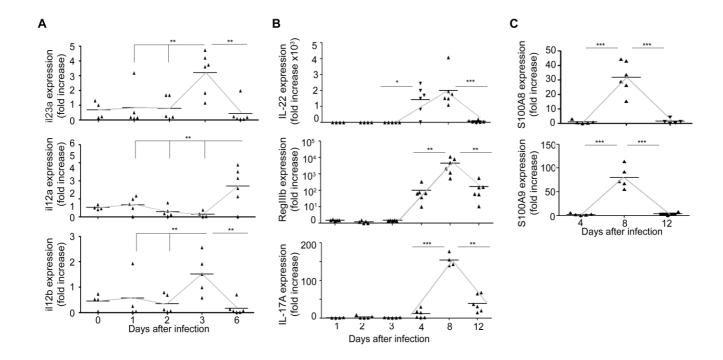
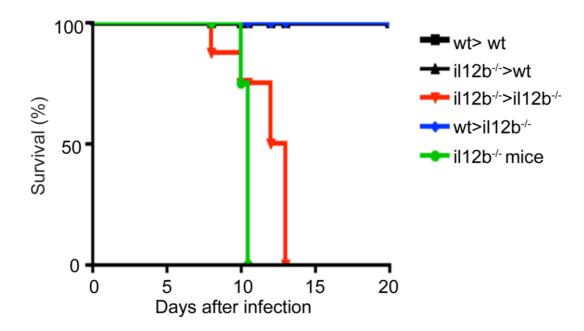
Supplementary Information

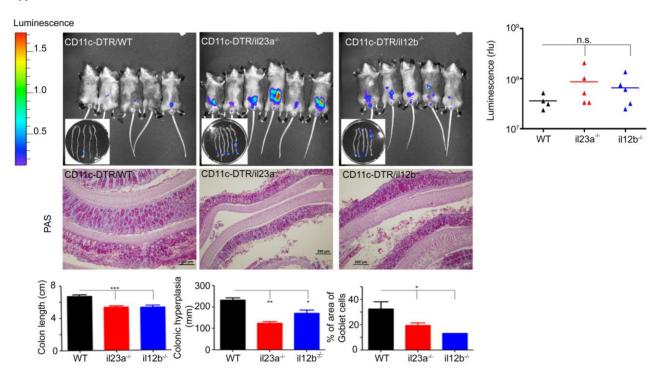


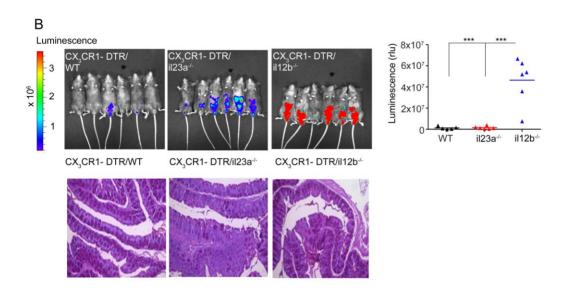
Supplementary Figure 1. Cytokine dynamics during the early host response to *C. rodentium* infection in WT mice.

Mice were infected with10⁹ CFU of *C. rodentium* by gavage and a time-course RT-PCR analysis of infected colonic tissue was performed. (A) *il23a* and *il12b* were upregulated on day 3, *il12a* was upregulated on day 6. (B) IL-22 was found upregulated on day 4 and day 8, waning by day 12. IL-17A, RegIIIβ, S100A9 and S100A8 (C) were found upregulated on day 8 (n=4-6 per group from 3 individual experiments). The data are represented as fold increase normalized to non-starved and non-infected mice. Asterisk P<0.05, two asterisks P<0.01, three asterisks P<0.001.

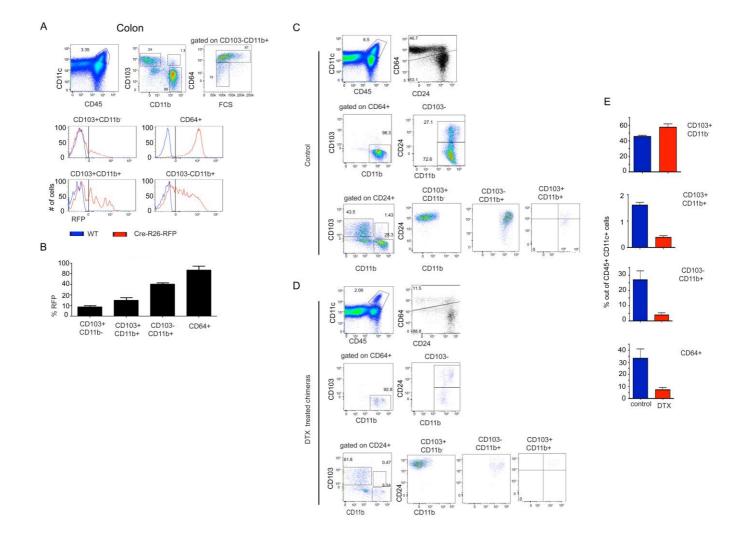


Survival curves of *Citrobacter*-challenged [WT > WT], [$il12b^{-/-}$ > WT], [$il12b^{-/-}$ > $il12b^{-/-}$] and [WT > WT] BM chimeras, as well as $il12b^{-/-}$ mice. (n = 6 per group).

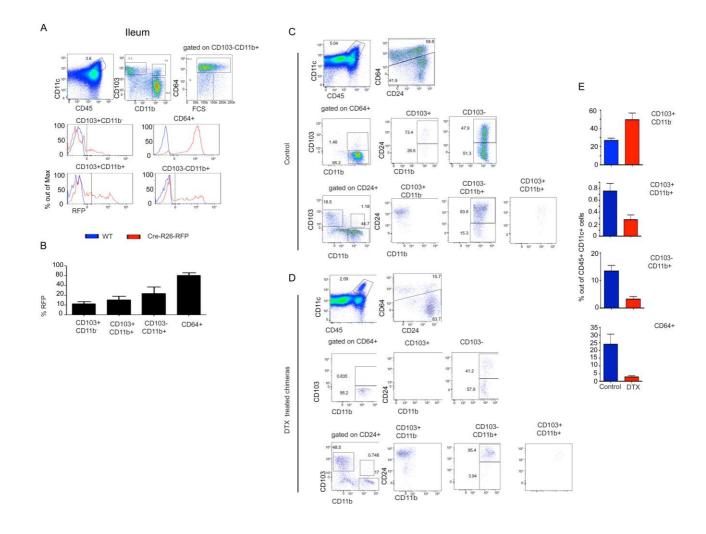




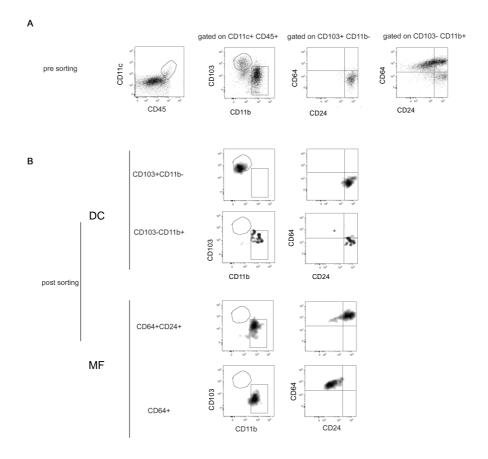
- (A) Analysis of bacterial load and goblet cell status (PAS staining) at day 7; note loss of enterocytes and decrease in mucosal hyperplasia in [*il23a*^{-/-}/CD11c-DTR > WT], [*il12b*^{-/-}/CD11c-DTR > WT] and [WT / CD11c-DTR > WT] BM chimeras. Bar diagrams indicate colon lengths, colonic hyperplasia and goblet cell abundance.
- **(B)** Bacterial load and histology of *C. rodentium* infected DTx-treated mixed [$il23a^{-/-}$ / CX₃CR1-DTR > WT], [$il12b^{-/-}$ / CX₃CR1-DTR > WT] and [WT / CX₃CR1-DTR > WT] BM chimeras on day 8 post infection (n=5-6 per group from 3 individual experiments).

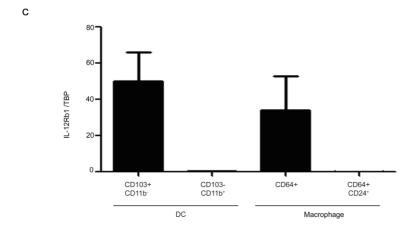


- **(A)** Flow cytometric analysis of colonic mononuclear phagocyte compartment of CX₃CR1^{Cre/+}:R26-RFP mice for reporter gene expression.
- **(B)** Bar diagram summarizes data (n=3 per group from three individual experiments).
- (C, D) Flow cytometric analysis of colonic mononuclear phagocyte compartment of DTx-treated [CX $_3$ CR1-DTR > WT] BM chimeras 5 days after DTX treatment.
- **(E)** Bar diagram summarizes data (n=3 per group from three individual experiments).



- **(A)** Flow cytometric analysis of ileal mononuclear phagocyte compartment of CX₃CR1^{Cre/+}:R26-RFP mice for reporter gene expression.
- (B) Bar diagram summarizes data (n=3 per group from three individual experiments).
- **(C, D)** Flow cytometric analysis of ileal mononuclear phagocyte compartment of DTx-treated [CX_3CR1 -DTR > WT] BM chimeras.
- **(E)** Bar diagram summarizes data (n=3 per group from three individual experiments).





Flow cytometry sorting strategy for colonic lamina propria resident DC and macrophages. Representative flow cytometry images used to identify and sort colonic DC and macrophages of WT mouse. (A) presort analysis; (B) postsort analysis

(C) RT-PCR analysis of *IL12rb1* expression on FACS sorted lamina propria DC and macrophages isolated from infected WT mice three days post infection. Data are representative of 3 independent experiments with DC and macrophages pooled from 7-10 mice.

Supplementary Table 1

Real-time PCR primers

The sequences for primers used in this study are as follows:

Primers	Forward	Reverse
IL-17A	5'-GCT CCA GAA GGC CCTCAG A-3'	5'-CTT TCC CTC CGC ATT GAC A-3'
IL-6	5'-TCC AAT GCT CTC CTA ACA GAT AAG-3'	5'-CAA GAT GAA TTG GAT GGT CTT G-3'
IL-12p40	5'-ACA TCT ACC GAAGTC CAA TGC A-3'	5'-GGA ATT GTA ATA GCG ATC CTG AGC-3'
IL-23p19	5'-GGT GGC TCA GGG AAA TGT-3'	5'-GAC AGA GCA GGCAGG TAC AG-3'
IL-12 p35	5'- GCC ACC CTT GCC CTC CTA A -3'	5'- GGT TTG GTC CCG TGT GAT GTC -3'
IFNγ	5'- ATG GCT GTT TCT GGC TGT TAC TG -3'	5'- ATC TGG CTC TGC AGG ATT TTC A -3'
S100A8	5'- TGT CCT CAG TTT GTG CAG AAT ATA AA-3'	5'-TCA CCA TCG CAA GGA ACT CC-3'
RegIIIβ	5'- ATG GCT CCT ACT GCT ATG CC-3'	5'- GTG TCC TCC AGG CCT CTT T-3'
IL-22	5'-TCC GAG GAG TCA GTG CTA AA-3'	5'-AGA ACG TCT TCC AGG GTG AA-3
TBP	5'-GAAGCTGCGGTACAATTCCAG-3'	5'-CCCCTTGTACCCTTCACCAAT-3'
IL-23R	5'-TGGTGTCACGGAGGAATCACAAGT3'	5'-AGATTCCTTGGTCGGCAGTGCTTA3'
S100A9	5'-GGT GGA AGC ACA GTT GGC A-3'	5'-GTG TCC AGG TCC TCC ATG ATG-3'
IL-12Rb1	5'-CCCCAGCGCTTTAGCTTT-3'	5'GCCAATGTATCCGAGACTGC-3'