Supplementary Material

Plasmacytoid Dendritic Cells Provide Protection Against Bacterial-Induced Colitis

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### 1. Supplementary Table

| Gene name | Sequence                      |
|-----------|------------------------------|
| 18S F'    | GTAACCCGTTGAACCCCCATT        |
| 18S R'    | CCATCCAATCGGTAGTAGCG         |
| Ifnγ F'   | GCAACAGCAAGGCGAAAAAG         |
| Ifnγ R'   | CTCATTGAATGCTTGCGCT          |
| Il1β F'   | TCTGGGATCCTCTCCAGCCAAAG      |
| Il1β R'   | TCAGGACAGCCCAGGTCAAAGG       |
| Il122 F'  | TTGAGGTGTCCAACTTCCAGCA       |
| Il122 R'  | AGCCGGACATCTGTGTTGTTA        |
| Il17a F'  | ACCGCAATGAAGACCCTGAT         |
| Il17a R'  | TCCCTCCGCATTGACACA           |
| Tnfα F'   | CAAATTGCGATGACAAGCCTG        |
| Tnfα R'   | GAGATCCATGCCGTTGCG           |

**Supplementary Table 1. Primers used for qPCR for the genes indicated**
1.1 Supplementary Figures

Supplementary Figure 1. pDC depletion and reconstitution. Number of pDC in (a) spleen and (b) colon on day 10 after infection. Proportion of CD45+ cells identified as pDC in (c) spleen and (d) colon of BDCA2-DTR mice on day 10 after infection in mice treated with PBS or DT. (e) Proportion of CD45+ cells identified as pDC in ‘reconstitution experiment shown in Figure 2c and 2d on day 10 after infection. Each symbol is data for one mouse. Mann-Whitney T test, * $P<0.05$, ** $P<0.01$, **** $P<0.001$. 

![Diagram of Supplementary Figure 1](image-url)
Supplementary Figure 2. Histopathology in pDC depleted mice after C. rodentium infection. Representative haemotoxylin and eosin stained sections of mouse colons from the experimental groups indicated. Mice were killed and tissue taken at day 10 after infection. Black asterisks indicate elongated crypts. White asterisks indicate submucosal edema. Black arrows indicate inflammatory infiltrates.
Supplementary Figure 3. Analysis of CD4+ T cells, Treg cells and B cells in *C. rodentium* and pDC depleted mice. Samples from mice analysed 10 days after infection are shown. The proportions and number of CD4+ T cells in colon (a, b). The proportions and number of Foxp3+ Treg cells in colon (c, d). The following samples were from mesenteric lymph nodes. Proportion and number of CD4+ T cells (e, f). Proportion and number of Foxp3+ Treg cells (g, h). Proportion and number of B220+ B cells (i, j) Each symbol is data for one mouse. Mann-Whitney T test. * P<0.05, ** P<0.01.
Supplementary Figure 4. Mice deficient in type 1 interferon signalling show similar weight loss and bacterial loads after *C. rodentium* infection. Mice deficient in IFNAR2 or WT C57BL/6 mice were infected orally with *C. rodentium* on day 0. (a) Weight change of mice during the course of infection. Data expressed as mean ± s.e.m. (b) *C. rodentium* CFU in faecal pellets. Each symbol is data for one mouse.