

Supplementary Figures

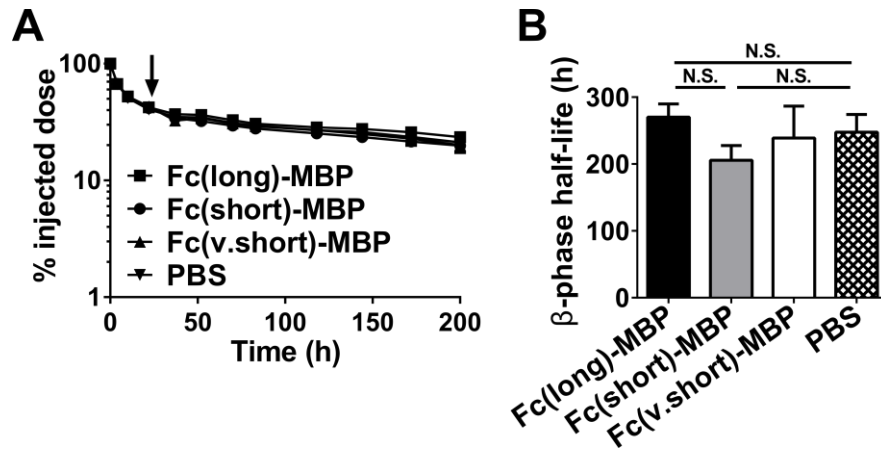


Figure S1. Fc-MBP fusions do not affect the clearance rate of mouse IgG1. B10.PL mice ($n = 4-5$ mice/group) were injected with ^{125}I -labeled mouse IgG1. 24 hours later (indicated by arrow in panel A), the mice were injected with DPBS or $1 \mu\text{g}$ Fc-MBP fusion. (A) Remaining radioactivity levels in blood samples. (B) β -phase half-lives of mouse IgG1, calculated for fitted data. Error bars indicate SEM. N.S., no significant difference ($p > 0.05$; two-tailed Student's t -test).

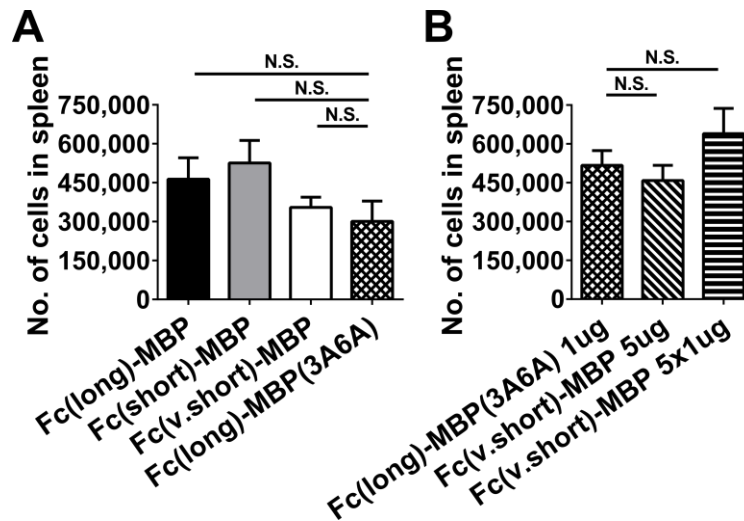


Figure S2. Prophylactic tolerance induction does not result in increased numbers of CD4⁺Foxp3⁺ T cells. B10.PL mice were treated as in Fig. 3. (A, B) Numbers of CD4⁺Foxp3⁺ T cells in the spleens were determined using flow cytometry ten days following immunization of mice with MBP1-9. Data are derived from 4-7 mice per treatment group. Error bars indicate SEM. N.S., no significant difference ($p > 0.05$; two-tailed Student's t -test).

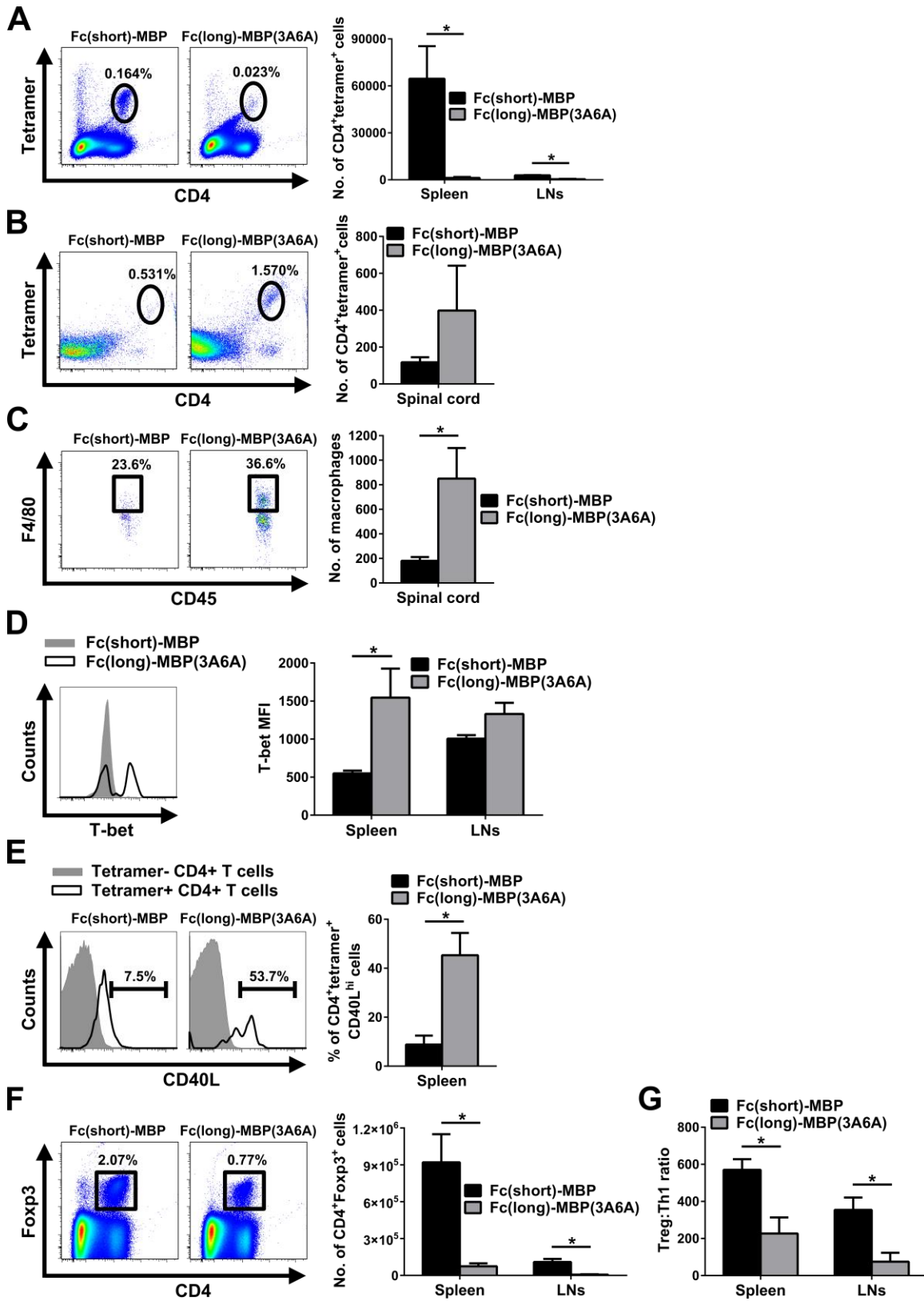


Figure S3. Tolerance induction during ongoing EAE results in increased numbers of peripheral antigen-specific CD4⁺ T cells with downregulated T-bet and CD40L levels combined with reduced inflammatory infiltrates in the CNS. B10.PL mice were immunized and treated with Fc(short)-MBP or Fc(long)-MBP(3A6A) as in Fig. 5. Six days following treatment, mice were sacrificed and tissues isolated for flow cytometry analyses to determine: (A) % (in spleens) and total numbers (in spleens, LNs) of CD4⁺tetramer⁺ T cells; (B, C) % and total numbers of mononuclear infiltrates in the spinal cords that are CD4⁺tetramer⁺ T cells (B) or F4/80⁺CD45^{hi} macrophages (C); (D) MFI levels for T-bet amongst CD4⁺tetramer⁺ T cells in spleens and LNs; (E) % CD4⁺tetramer⁺ CD40L^{hi} T cells in spleens; (F) % (in spleens) and total numbers (in spleens, LNs) of CD4⁺Foxp3⁺ T cells; (G) Treg (CD4⁺Foxp3⁺ T cells):Th1 (CD4⁺tetramer⁺T-bet⁺ T cells) ratios in spleens and LNs. For A-F, data for one representative mouse from each treatment group is presented in the left panels. For A-C, F, populations of interest are indicated in dot plots by solid circles or boxes. Percentages (\pm SEM) of CD4⁺ T cells for mice treated with the Fc-MBP fusions were: Fc(short)-MBP, 9.5 ± 0.8 (spleens) and 28.8 ± 0.8 (LNs); Fc(long)-MBP(3A6A), 11.5 ± 0.6 (spleens) and 19.7 ± 2.7 (LNs). Data are derived from 3-4 mice/group (A-C, E-G) or 7 mice/group (D). Error bars indicate SEM and significant differences ($p < 0.05$; two-tailed Student's *t*-test) are indicated by *.