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**Supplemental Information**

**MicroRNA-155 Promotes Autoimmune Inflammation**

**by Enhancing Inflammatory T Cell Development**

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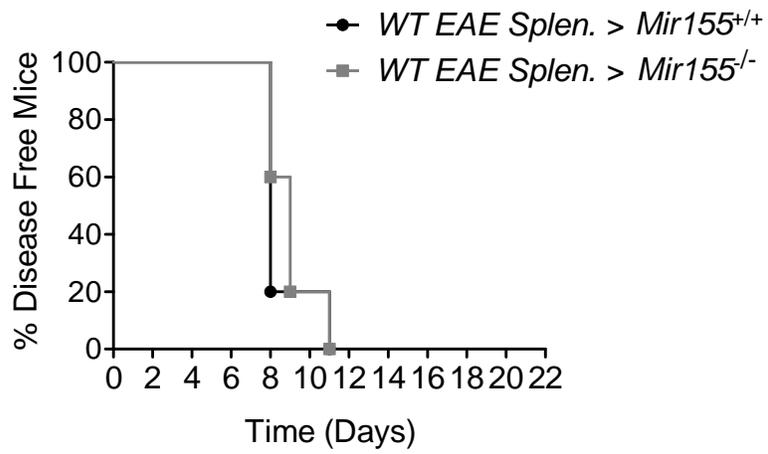
**Supplemental Information**

Figure S1 - Shows disease incidence for mice in Figure 1I

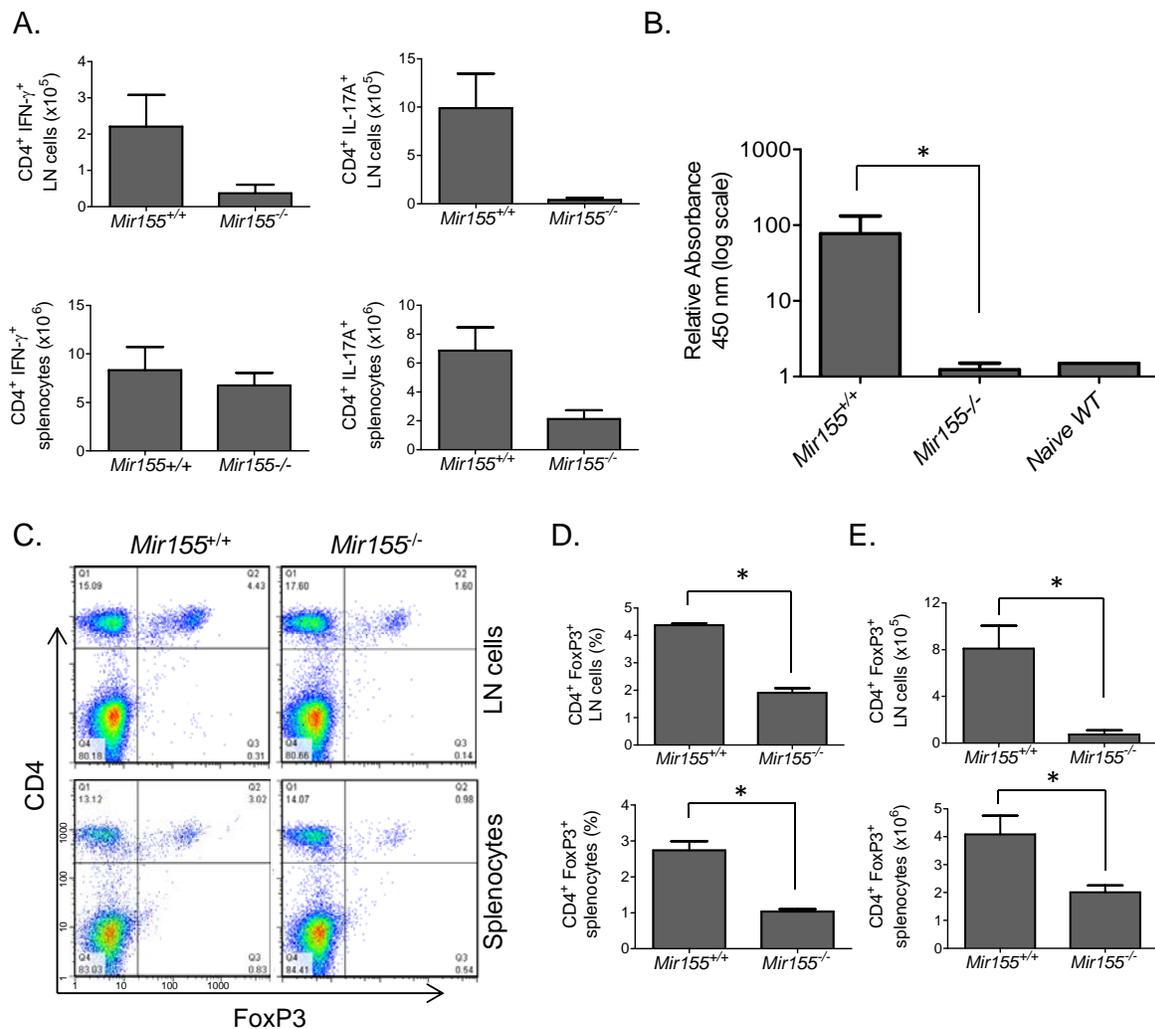
Figure S2 - Presents total cell numbers for Figures 2A and 2B, the amounts of FoxP3<sup>+</sup> Treg cells and relative amounts of anti-MOG<sub>35-55</sub> IgG in the serum of EAE mice.

Figure S3 - Shows total cell numbers in the different organs analyzed in Figure 3.

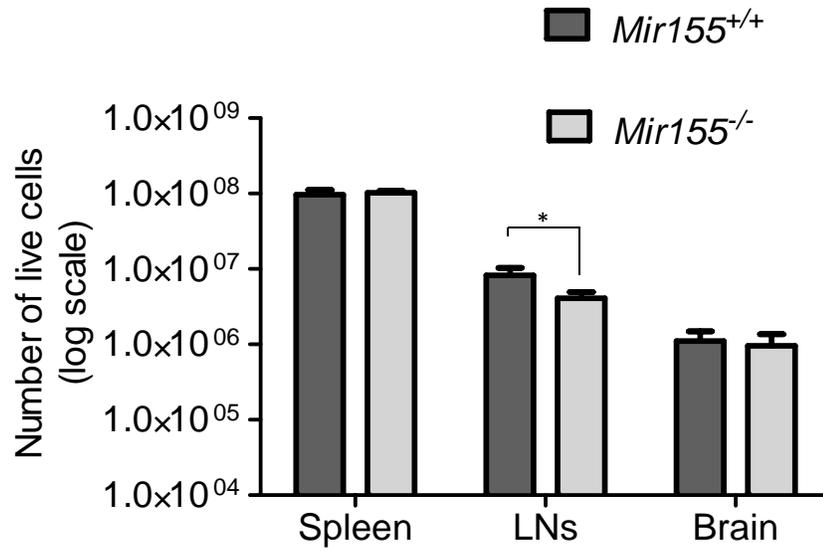
Figure S4 - Presents additional flow cytometry plots for Figure 6E.



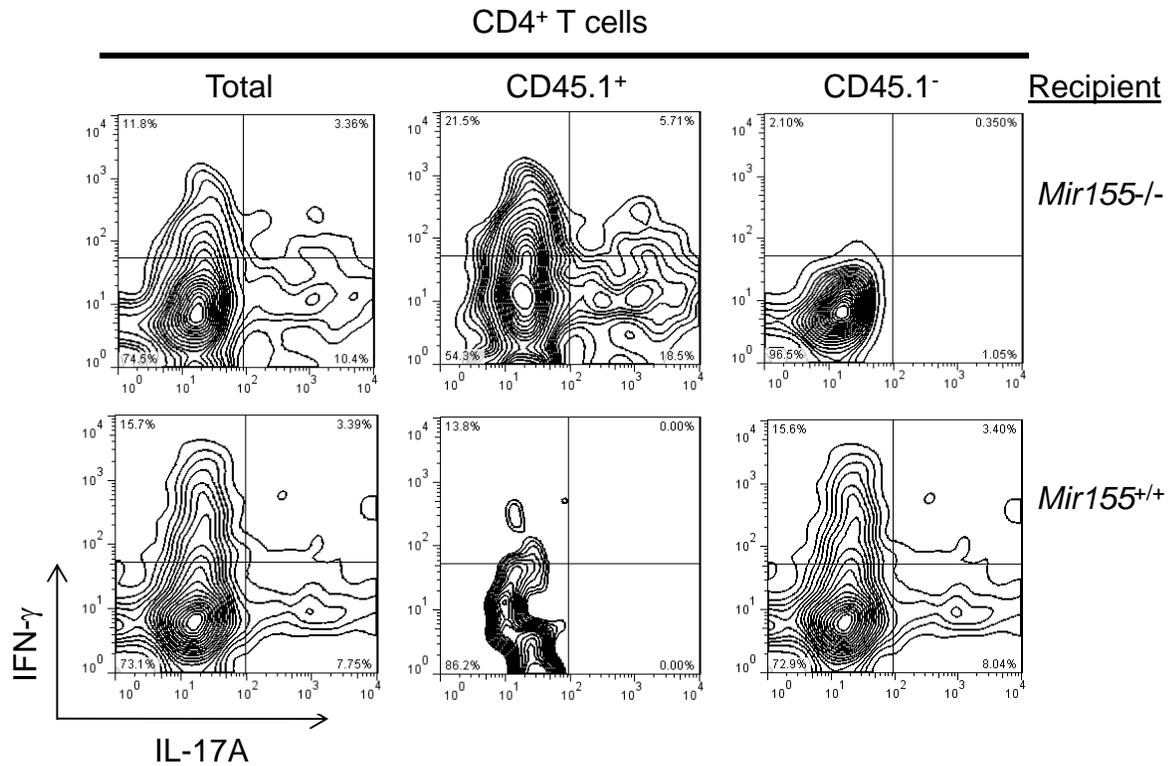
**Figure S1** - Disease incidence of WT or *Mir155*<sup>-/-</sup> mice after receiving day 12 WT encephalitogenic splenocytes (n=5).



**Figure S2 - A.** Number of IL-17A or IFN- $\gamma$  positive CD4<sup>+</sup> T cells in WT or *Mir155*<sup>-/-</sup> spleens and LNs from day 25 EAE mice (n=4). **B.** Relative levels of MOG<sub>35-55</sub> reactive IgG antibodies in the serum of *Mir155*<sup>+/+</sup> and *Mir155*<sup>-/-</sup> mice was determined by flow cytometry 25 days after immunization with 100  $\mu$ g of MOG<sub>35-55</sub> (n=6). 2 naïve WT mice were included as controls. **C.** The percentages and absolute numbers of FoxP3<sup>+</sup>CD4<sup>+</sup> Treg cells in the lymph nodes and spleens of *Mir155*<sup>+/+</sup> or *Mir155*<sup>-/-</sup> mice with EAE were determined 25 days post immunization with MOG<sub>35-55</sub>. **D.** and **E.** The averages of 4 mice in each group are shown.



**Figure S3** - Total number of live cells from the spleens, LNs or brains of WT or *miR-155*<sup>-/-</sup> day 13 EAE mice (n=5).



**Figure S4** - *Mir155*<sup>+/+</sup> and *Mir155*<sup>-/-</sup> mice were injected with  $1 \times 10^7$  WT CD45.1<sup>+</sup>CD4<sup>+</sup> T cells and immunized with MOG<sub>35-55</sub> the next day. CD4<sup>+</sup> T cells were extracted from the brains of EAE mice at the end of the time course and intracellular IL-17A and IFN- $\gamma$  were assayed by flow cytometry (n=5).