

**Supplementary Figure 1.** Transduction efficacy of GFPFVIII or FoxP3FVIII Tcells, prior to cell sorting before adoptive transfer.

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**Supplementary Figure 2. Treatment with anti-mCD20 does not affect recovery of B cell compartments.** Spleens and bone marrow of mice treated with anti-mCD20 were harvested after the 4-month time point to confirm that B cell depletion was transient. **A.** Schematic representation of gating for plasma cell populations in the bone marrow and **B.** Memory B cell populations in the spleen. **C.** Total CD19+ B cells in the spleens of control, anti-mCD20 treated and FoxP3FVIII+anti-mCD20 treated mice. **D.** Percentage of IgM+ and IgG+ memory B cells in spleens. **E.** Percentage of plasma cells in the bone marrow. Data are average ±SD of at least 4 animals per group. Statistically significant differences are indicated.