Supplemental Figure Legends

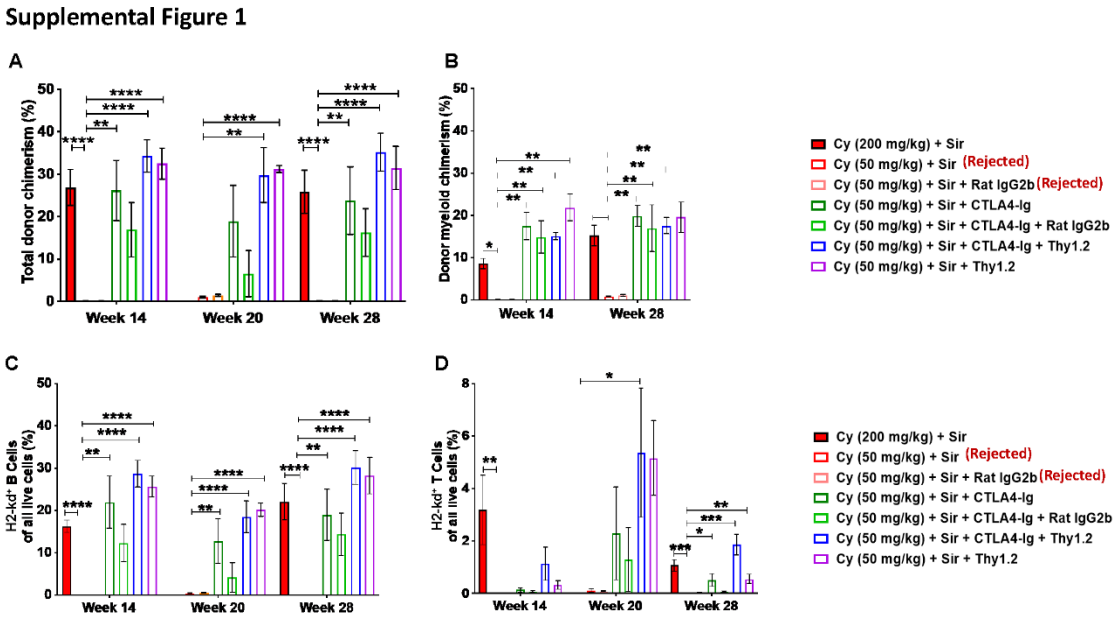

Figure S1. The addition of anti-Thy1.2 with or without CTLA4-Ig led to prolonged donor chimerism levels of at least 20% from weeks 14- 28 PT in younger mice.

Peripheral blood analysis at indicated time points of H2- kd^+ total cells **(A)**, H2-K^{d+} $CD11b^+$ myeloid cells **(B)**, H2- kd^+ $CD19^+$ B cells **(C)**, and H2- kd^+ $CD3^+$ T cells **(D)**. Data represent two experiments from n=3-9 mice (Mean $\pm$ SEM). (D* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$, and **** $P < 0.0001$ (unpaired two-tailed Student's t-test).

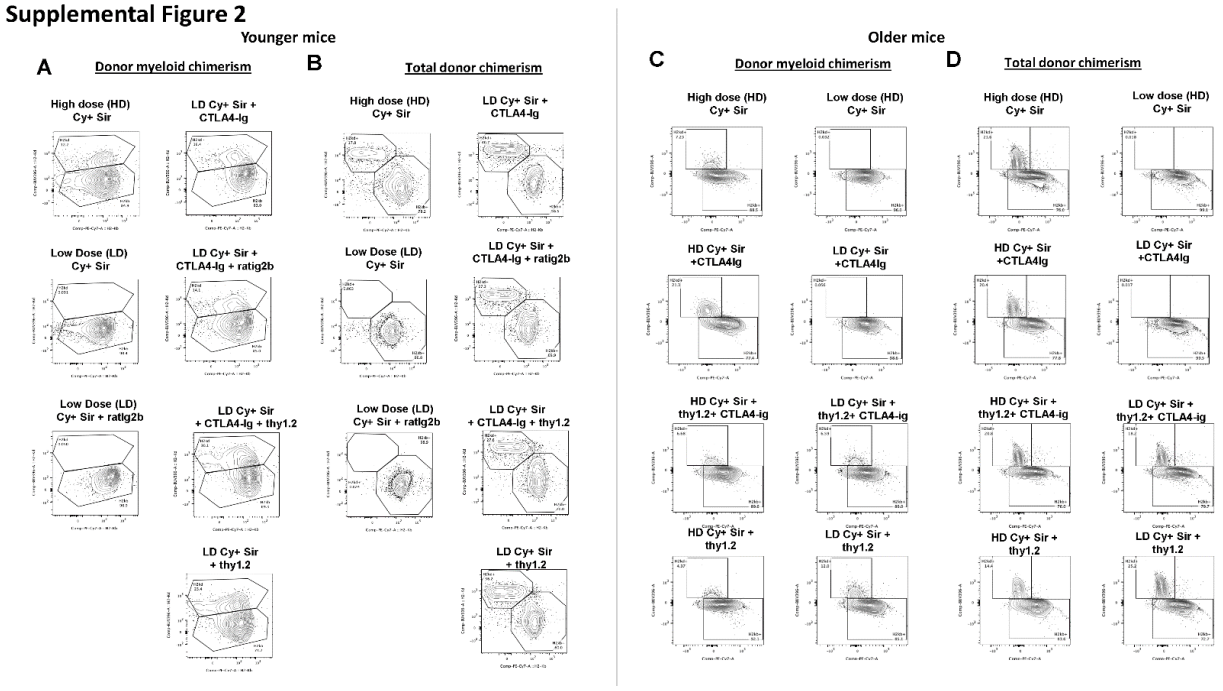

Figure S2. Representative flow plots depicting higher donor myeloid chimerism and total donor chimerism in younger and older mice within engrafted groups.

Peripheral blood at 10 weeks PT of the younger mice (n=3-9, 6-8 weeks old), and week 8 PT of older male mice (n=5, 15-18 weeks old). H2- kd^+ $CD11b^+$ myeloid cells from younger recipient mice **(A)**, H2-K^{d+} total cells from younger recipient mice **(B)**. H2- kd^+ total cells from older recipient mice **(C)**, H2-K^{d+} total cells from older recipient mice **(D)**. Representative flow plots from 3 independent experiments are shown.

Supplemental Figure 3

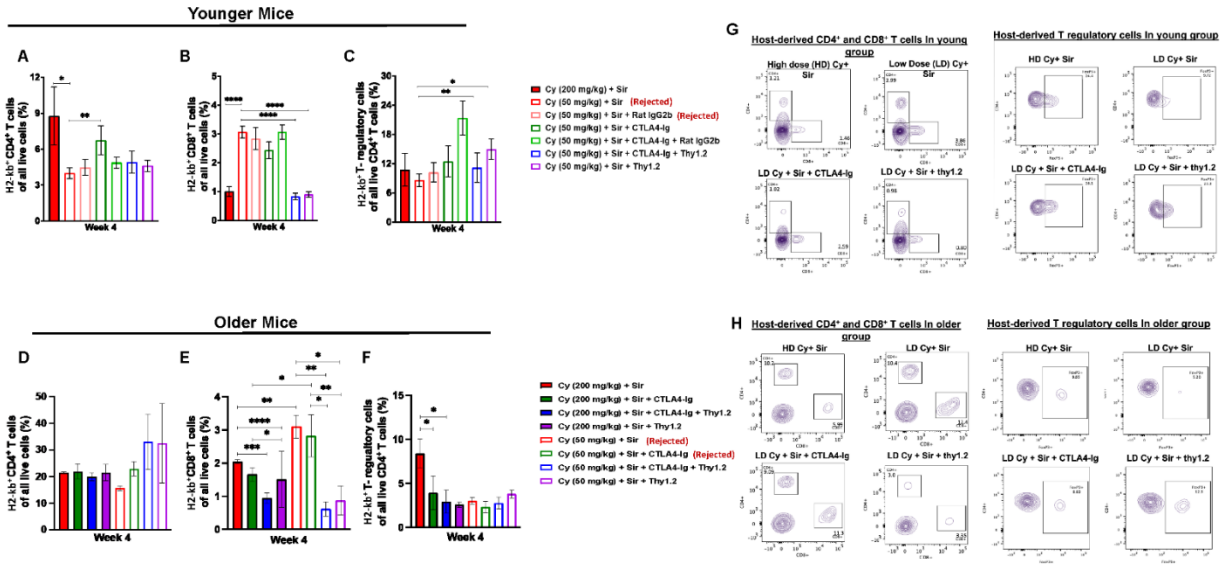

Figure S3. No clear correlation between the T cell frequencies and the success or failure of engraftment in younger or older mice.

Peripheral blood analysis at 4 weeks of host-derived H2- kb^+ $CD4^+$ T cells, H2- kb^+ $CD8^+$ T cells, and H2- kb^+ $CD4^+$ Tregs in younger mice **(A-C),** and in older mice in **(D-F)**. Representative flow plot are represented for younger mice H2- kb^+ $CD4^+$ and H2- kb^+ $CD8^+$ T cells **(G**, left panel**)** and H2- kb^+ $CD4^+$ Tregs **(G**, right panel**)**. Older mice H2- kb^+ $CD4^+$ and H2- kb^+ $CD8^+$ T cells **(H**, left panel**)** and H2- kb^+ $CD4^+$ Tregs **(H**, right panel**).** Data represents from one-two experiments involving n=3-9 mice (younger) and n=5 mice (older) (Mean ± SEM)** $P < 0.01$, *** $P < 0.001$, and **** $P < 0.0001$ (unpaired t wo-tailed Student's t-test).

Supplemental Figure 4

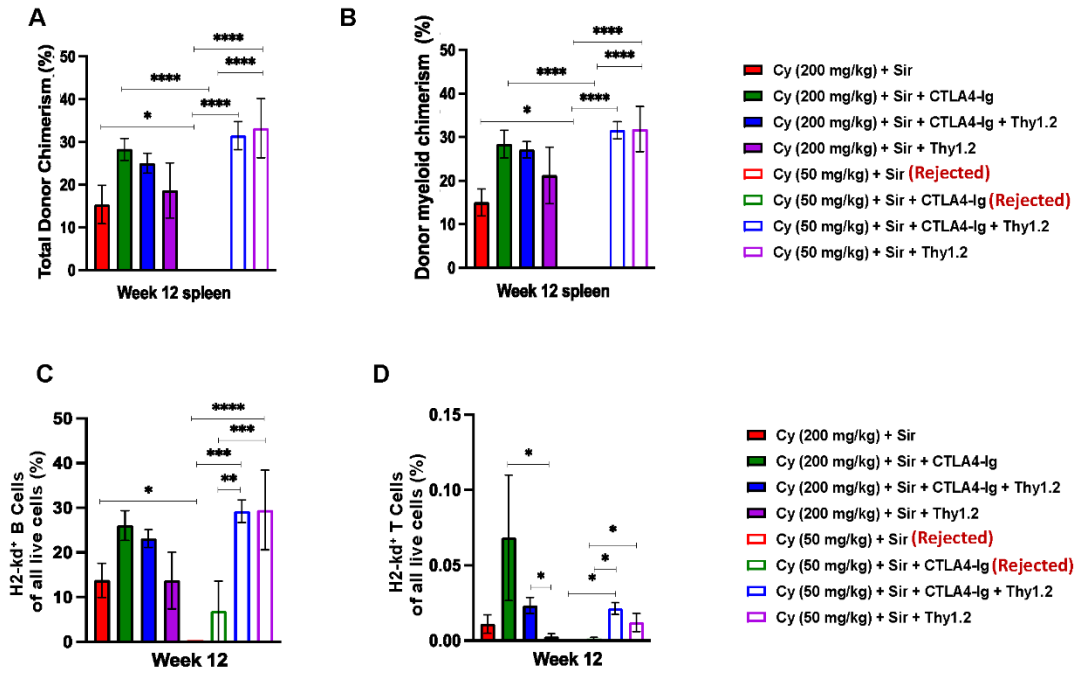

Figure S4. The addition of Thy1.2 facilitates splenic donor myeloid chimerism levels of greater than 30%. Splenocyte analysis at 12 weeks PT of H2- kd^+ total cells **(A)**, H2- kd^+ $CD11b^+$ myeloid cells **(B)**, H2-K^{d+} $CD19^+$ B cells **(C)**, and H2- kd^+ $CD3^+$ T cells **(D)**. Data is obtained from representative experiment involving n=5 older mice/group (16-18 weeks old) (Mean ± SEM). ** $P < 0.01$, *** $P < 0.001$, and **** $P < 0.0001$ (unpaired two-tailed Student's t-test).