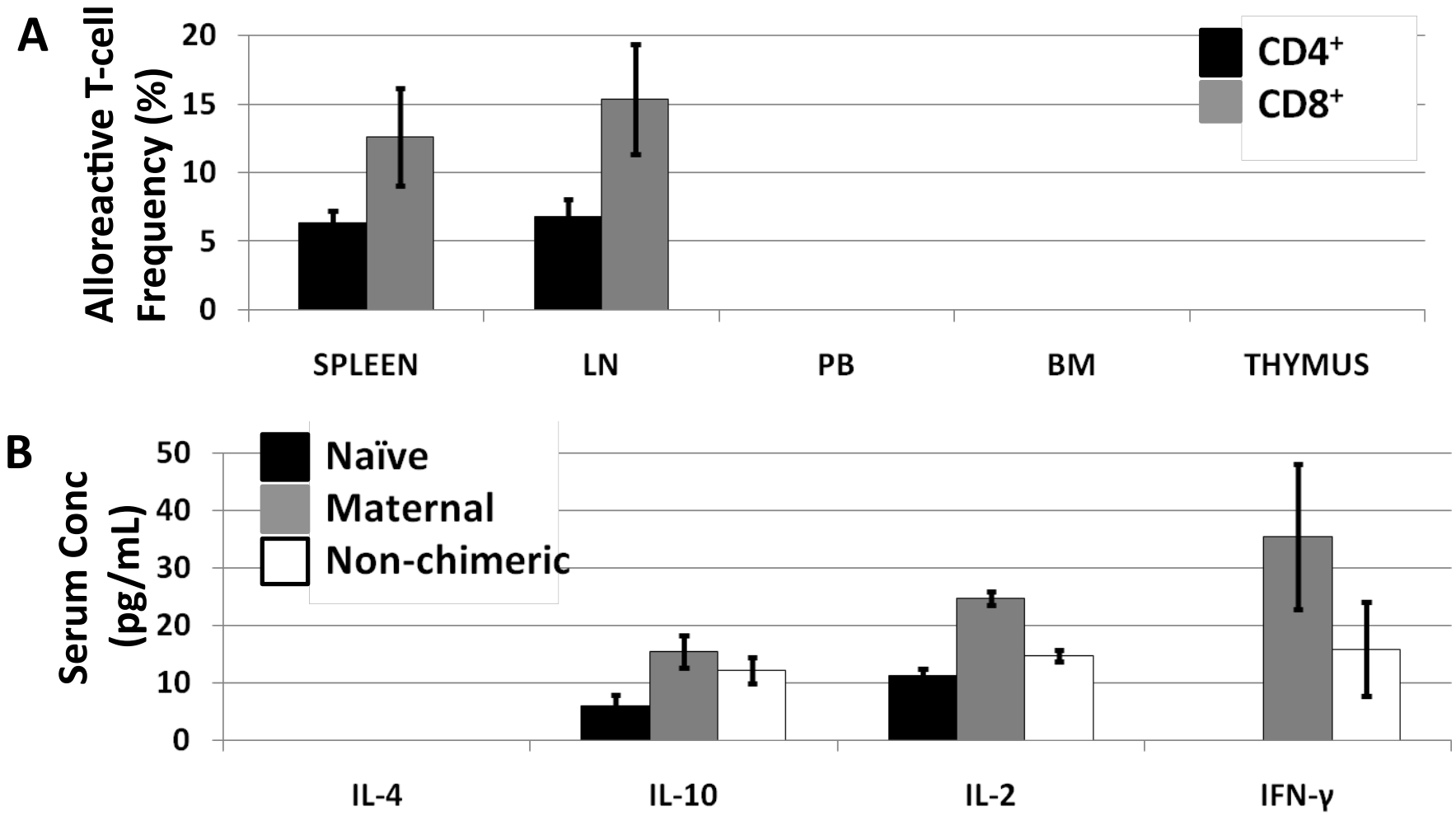
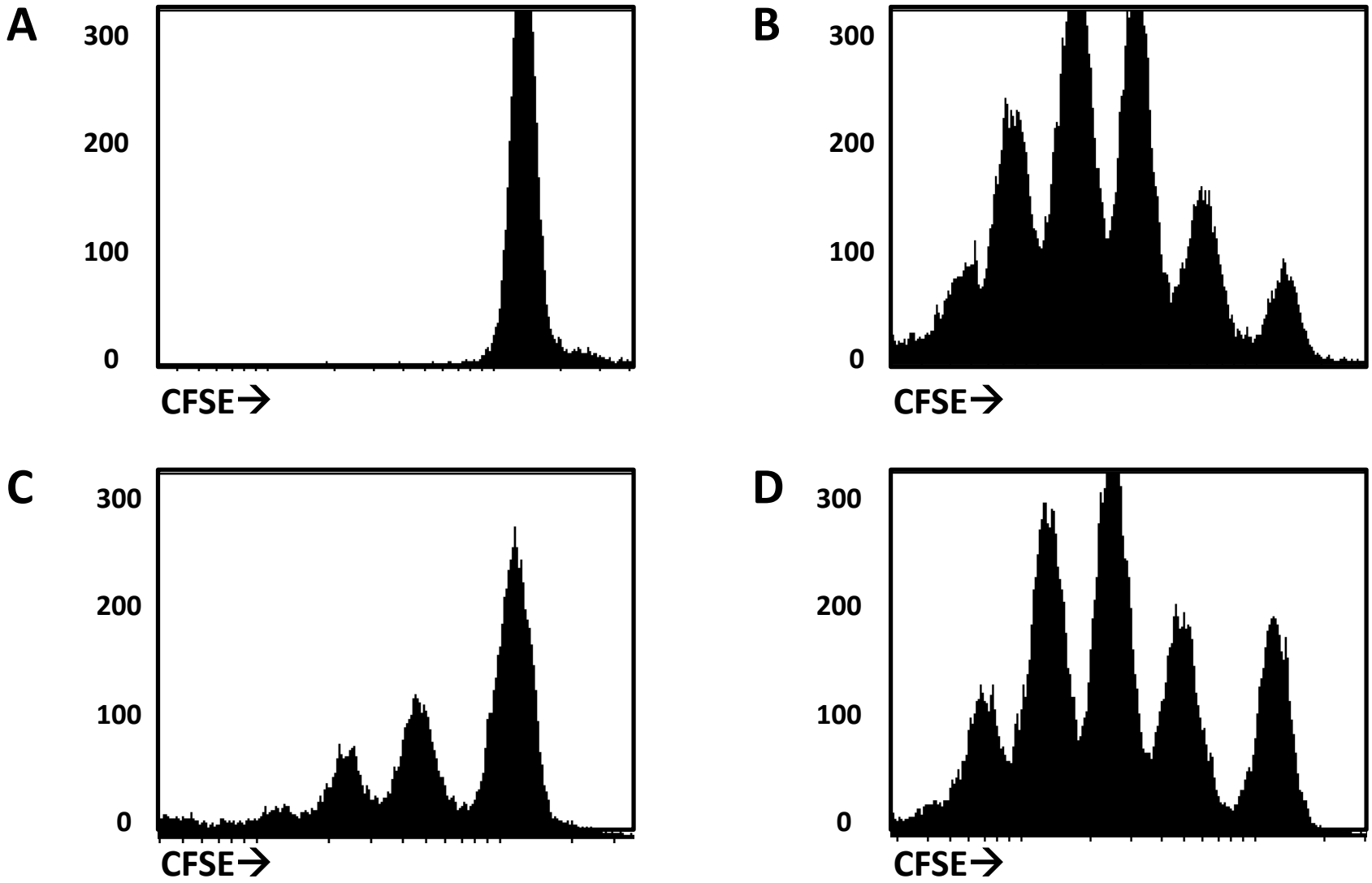
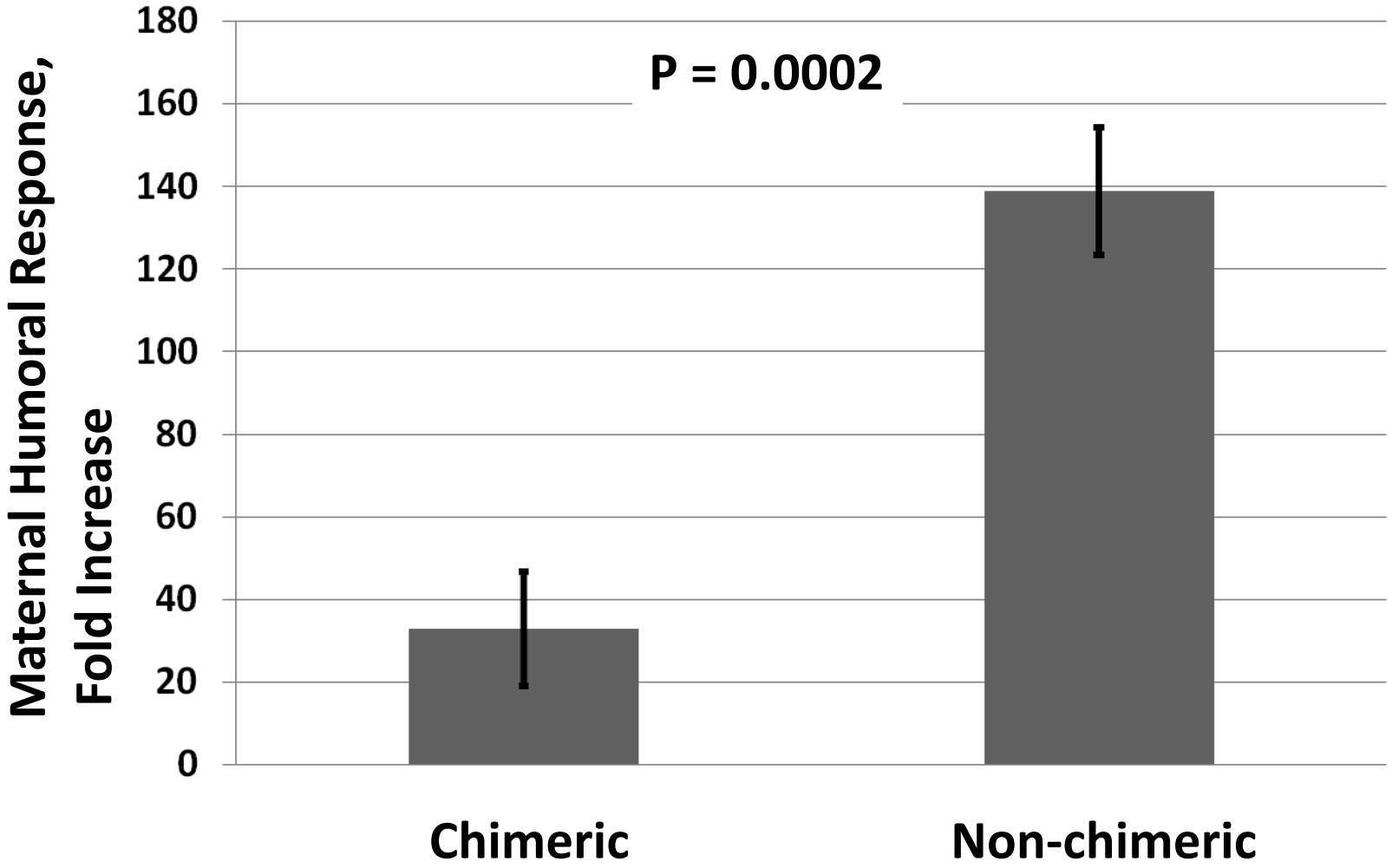


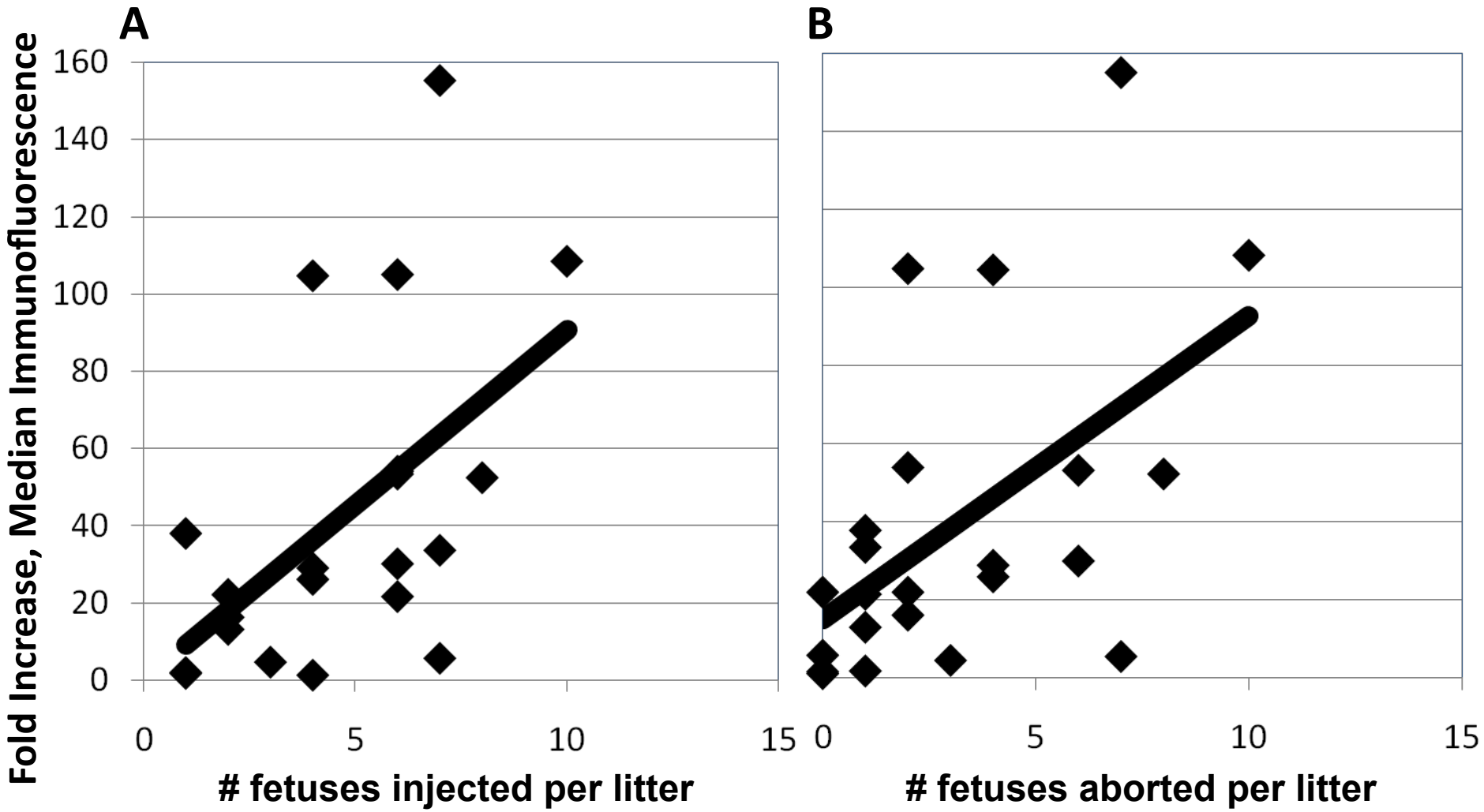
Supplemental Figure 1. In vivo MLR T-cell subsets, sequestration and cytokines. (**A**) Frequency of non-chimeric alloreactive lymphocytes by T-cell subset and tissue compartment. Number of CFSE labeled lymphocytes in peripheral blood (PB), bone marrow (BM) and thymus were negligible. (**B**) Serum cytokine levels for naïve mice, E14 injected dams, and non-chimeric pups. Levels of IL-4 were undetectable. Each data point represents at least 3 independent experiments. Error bars represent ± SEM.



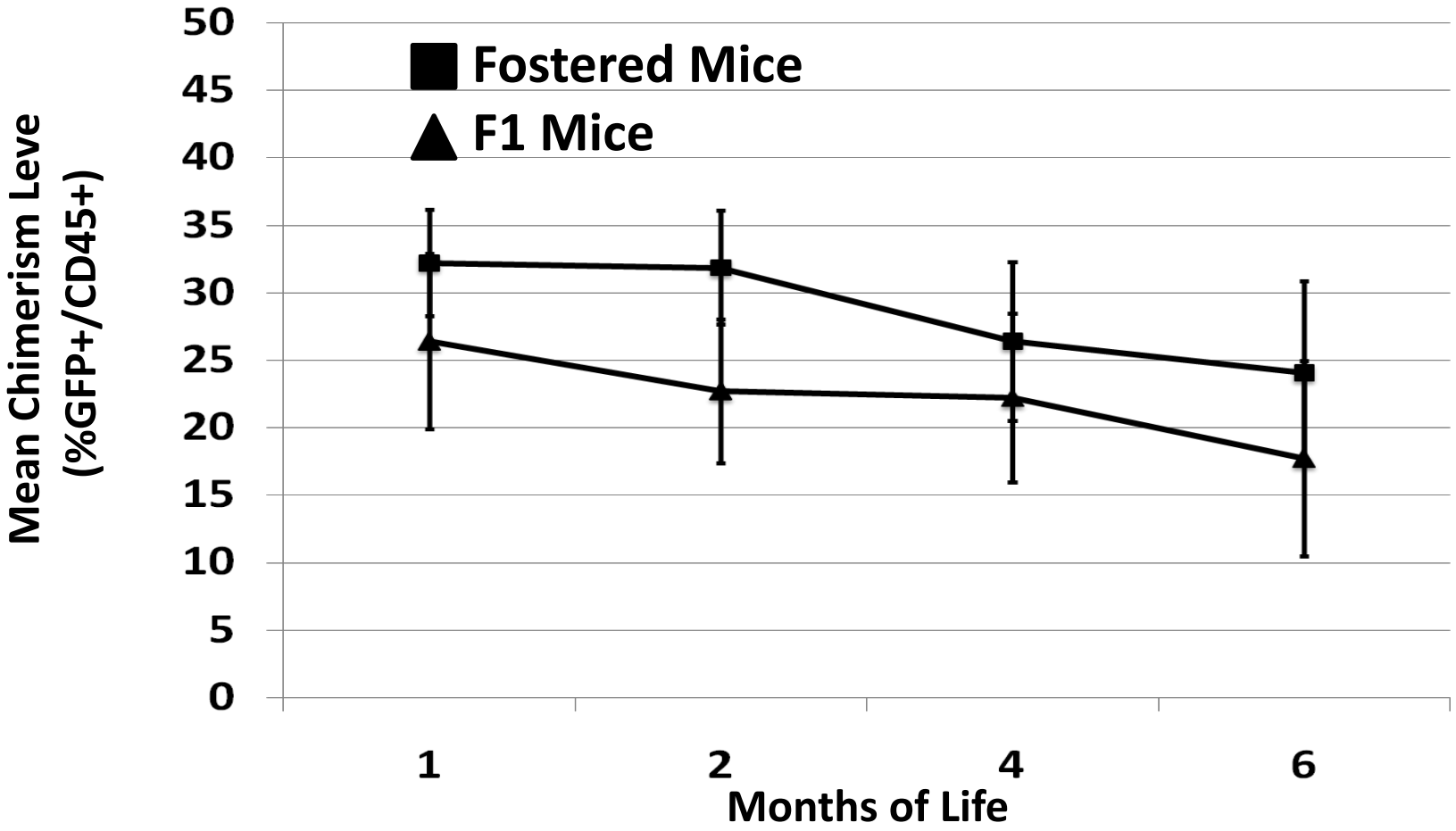
Supplemental Figure 2. Assessment of chimeric and fostered cells for anergy and/ or suppression. $CD4^+$, CFSE labeled BALB/c lymphocytes co-cultured with (**A**) syngeneic BALB/c splenocytes, (**B**) third party Swiss Webster splenocytes, and (**C**) B6 splenocytes before and (**D**) after addition of IL-2. Each tracing is representative of at least 3 independent experiments.



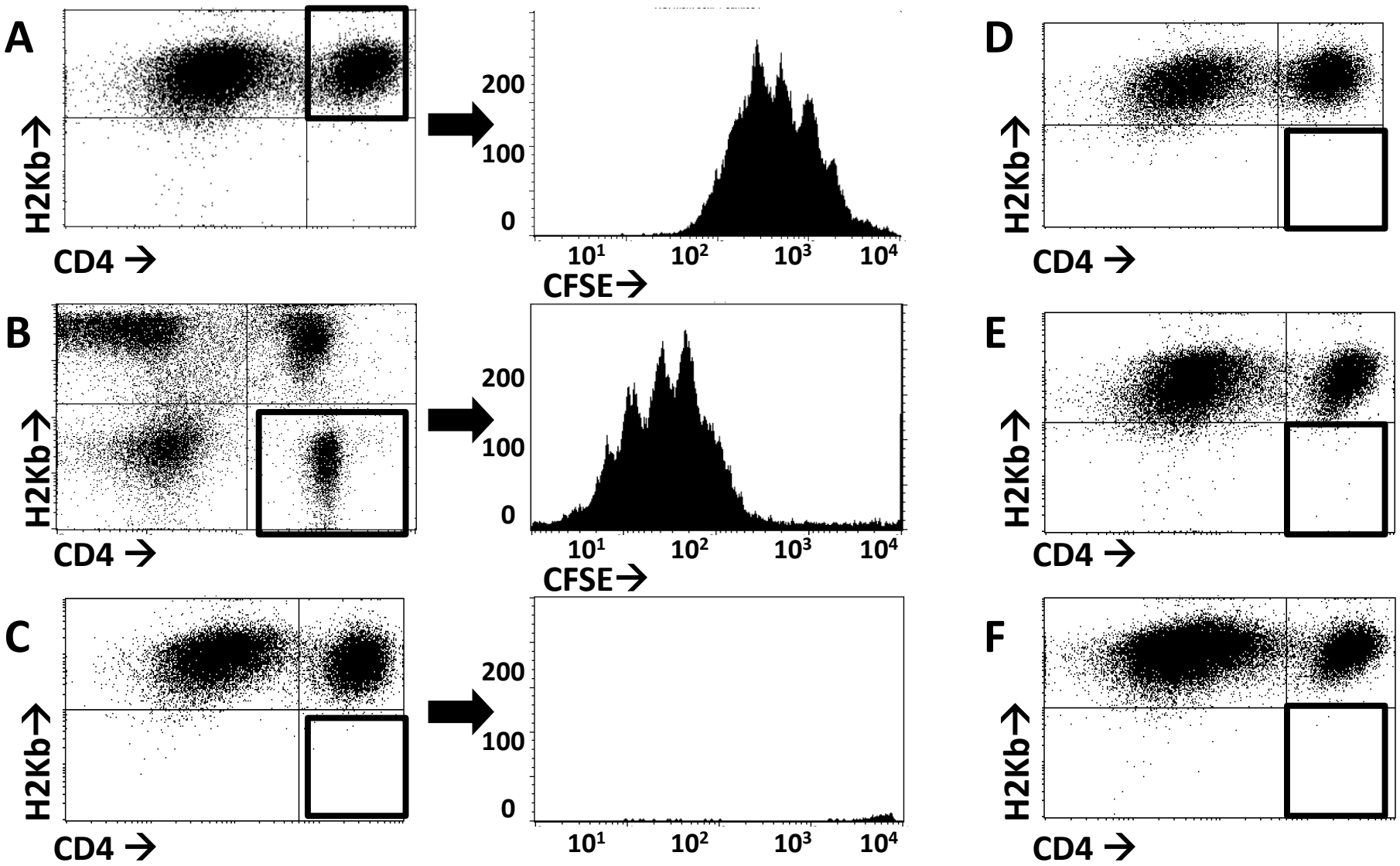
Supplemental Figure 3. Relationship between magnitude of maternal humoral response and loss of chimerism. Fold increase in maternal humoral response was 138.7 ± 15.4 (n=23) for non-chimeric pups as compared to 32.7 ± 13.8 (n=10) for chimeric pups (p=0.0002). Error bars represent ± SEM.



Supplemental Figure 4. Impact of fetal IUHCT and fetal loss on maternal humoral response. Magnitude of maternal humoral response in each injected dam versus (**A**) the total number of fetuses injected per litter (n=23, r=0.546, p=0.0070) and (**B**) the number of aborted fetuses per litter (n=24, r=0.547, p=0.0057).



Supplemental Figure 5. Long term chimerism levels of fostered and F1 mice. Fostered mice are BALB/c mice injected on E14 with 20 million GFP+ B6 BM cells and nursed by non-injected BALB/c surrogate mothers. Frequency of chimerism was 100%, N=22 at 1 month and N=13 at 2, 4 and 6 months). F1 mice are F1 progeny of B6 dams and BALB/c fathers, injected on E14 with 20 million GFP+ B6 BM cells. Frequency of chimerism was 100%, N=20 at 1 month and N=15 at 2, 4 and 6 months. Error bars represent ± SEM.



Supplemental Figure 6. Tissue compartment analysis of allo-reactive maternal lymphocytes in non-chimeric F1 pups. (**A**) $CD4^+$, $H2Kb^+$ lymphocytes from F1 fetal recipients (**B**) $CD4^+$, $H2Kb^-$ lymphocytes from E14 injected BALB/c dams. $H2Kb^-$ cells derived from F1 recipients in the (**C**) peripheral blood, (**D**) bone marrow, (**E**) lymph nodes, and (**F**) thymus. Each tracing represents at least 5 independent experiments.