Supplemental Figure 1. PD-1 controls TFR cells in NP-OVA immunized mice. (**a**) WT or PD-1^{-/-} mice were immunized with NP-OVA emulsified in CFA and 7 days later draining lymph nodes were stained for CD4⁺FoxP3⁺ICOS⁺CXCR5⁺CD19⁻ T follicular regulatory cells (TFR) and CD4⁺FoxP3⁻ICOS⁺CXCR5⁺CD19⁻ T follicular helper cells (TFH) using gating strategy shown. (**b**) TFH cells were gated and expressed as a percentage of CD4⁺FoxP3⁻ cells. (**c**) TFR cells were gated and expressed as a percentage of all CD4⁺ cells. (**d**) TFR cells were gated and expressed as a percentage of CD4⁺FoxP3⁺ cells were gated and expressed as a percentage of CD4⁺FoxP3⁺ cells were gated and expressed as a percentage of CD4⁺FoxP3⁺ cells. (**e**) TFR cells were gated and expressed as a percentage of CD4⁺FoxP3⁺ cells. (**e**) TFR cells were gated and expressed as a percentage of CD4⁺FoxP3⁺ cells. (**e**) TFR cells were gated and expressed as a percentage of CD4⁺FoxP3⁺ cells. (**e**) TFR cells were gated and expressed as a percentage of CD4⁺FoxP3⁺ cells. (**e**) TFR cells were gated and expressed as a percentage of CD4⁺FoxP3⁺ cells. (**e**) TFR cells were gated and expressed as a percentage of CD4⁺CXCR5⁺ICOS⁺ cells.

Supplemental Figure 2. Comparison of PD-L1, CD103 and GITR expression on WT and PD-1^{-/-} T Follicular Regulatory Cells. (a-c) WT or PD-1^{-/-} mice were immunized with MOG (35-55) and 7 days later draining lymph nodes were stained. TFR (CD4⁺ICOS⁺CXCR5⁺FoxP3⁺CD19⁻) cells were analyzed for surface expression of PD-L1 (a), CD103 (b) and GITR (c).

Supplemental Figure 3. WT and PD-1 deficient TFR cells express similar levels of GITR. WT and PD-1^{-/-} mice were immunized with NP-OVA and 7 days later populations were sorted according to gating strategy.

Supplemental Figure 4. TFH and TFR cells can bind similar levels of anti-CD3. (a) Gating of TFH, TFR and B cells from *in vitro* suppression assays as in Figure 4k. (b) Cells gated as in (**a**) were stained with an anti-hamster secondary antibody to quantify the amount of anti-CD3 bound to the surface of the cells.

Supplemental Figure 5. Blood TFH and TFR cells express central memory homing markers. WT and PD-1^{-/-} mice were immunized with MOG/CFA and 7 days later populations from blood were analyzed for CD62L (**a**) and CD44 (**b**) expression. (**c**) PD-1 expression was compared on WT and PD-1 deficient mice from draining lymph node and blood TFH and TFR cells 7 days after NP-OVA immunization.



Supplemental Figure 1



Supplemental Figure 2





Supplemental Figure 3

b.





Supplemental Figure 4





