Supplementary Figure 1: The absence of IL-21R on CD4 T cells results in decreased IFNγ and IL-17

Quantification of signature cytokine from Th1 (IFNγ) or Th17 (IL-17) differentiated CD4 T cells. Naïve CD4 T cells were sorted from 2D2 or 2D2xIL-21R KO cells then differentiated with IL-12 (for Th1) or TGF-β3+IL-6 (For Th17) cytokines for four days. Cells were harvested for intracellular cytokine analysis. Data is a representative of at least three independent experiments. ***p<0.001
Supplementary Figure 2: Th17 pathogenic signature not regulated by the loss of IL-21R.

Quantitative RT-PCR of Ccr6, Icos, Gzmb, Ahr, Maf, Rorc mRNA in naïve 2D2xTH and 2D2xTHxIL-21R−/− CD4+ T cells that were differentiated with TGF-β3/IL-6 (Th17) for four days in vitro. Data is a representative of three independent experiments.
Supplementary Figure 3: Decreased frequency of TH B cells from 2D2xTHxIL-21RKO mice.

Steady state activation state of B cells stained with CD138⁺CD19⁺ and CD19⁺B220⁺ from the lymphoid tissues in healthy 2D2xTH and 2D2xTHxIL-21RKO mice. Data is a representative of two independent experiments.
Supplementary Figure 4: IL-21 exposure promotes IL-23 in B cells under LPS stimulation

Wildtype B cells were activated *in vitro* with indicated stimulus and then harvested 24hr (A), 48hr (B), 72hr (C) post activation then quantified for *Il23* mRNA expression. B cells were sorted from C57BL/6 mice then cultured in vitro. Data is a representative of three independent experiments.
Supplementary Figure 5: THxIL-21RKO B cells produce less IL-10

Quantification of Il10, Ebi3, Il12p35 mRNA expression in TH and THxIL-21RKO B cells that were sorted after 4 days of recall experiment with rMOG (10ug/ml). Data represents combined qPCR values from four independent experiments.
Supplementary Figure 6: Loss of IL-23R signaling completely abolished development of ectopic lymphoid follicles in 2D2xTH mice

Quantification of ectopic lymphoid follicles from the CNS of 2D2xTH and 2D2xTHxIL-21RKO mice that developed spontaneous EAE determined by a pathologist in a double blind manner. CNS from 2D2xTHxIL-23RKO mice were harvested at 3 months of age since no mice developed spontaneous EAE. Statistics were determined by Student’s two tailed t test. ** P<0.01; *** P<0.001.