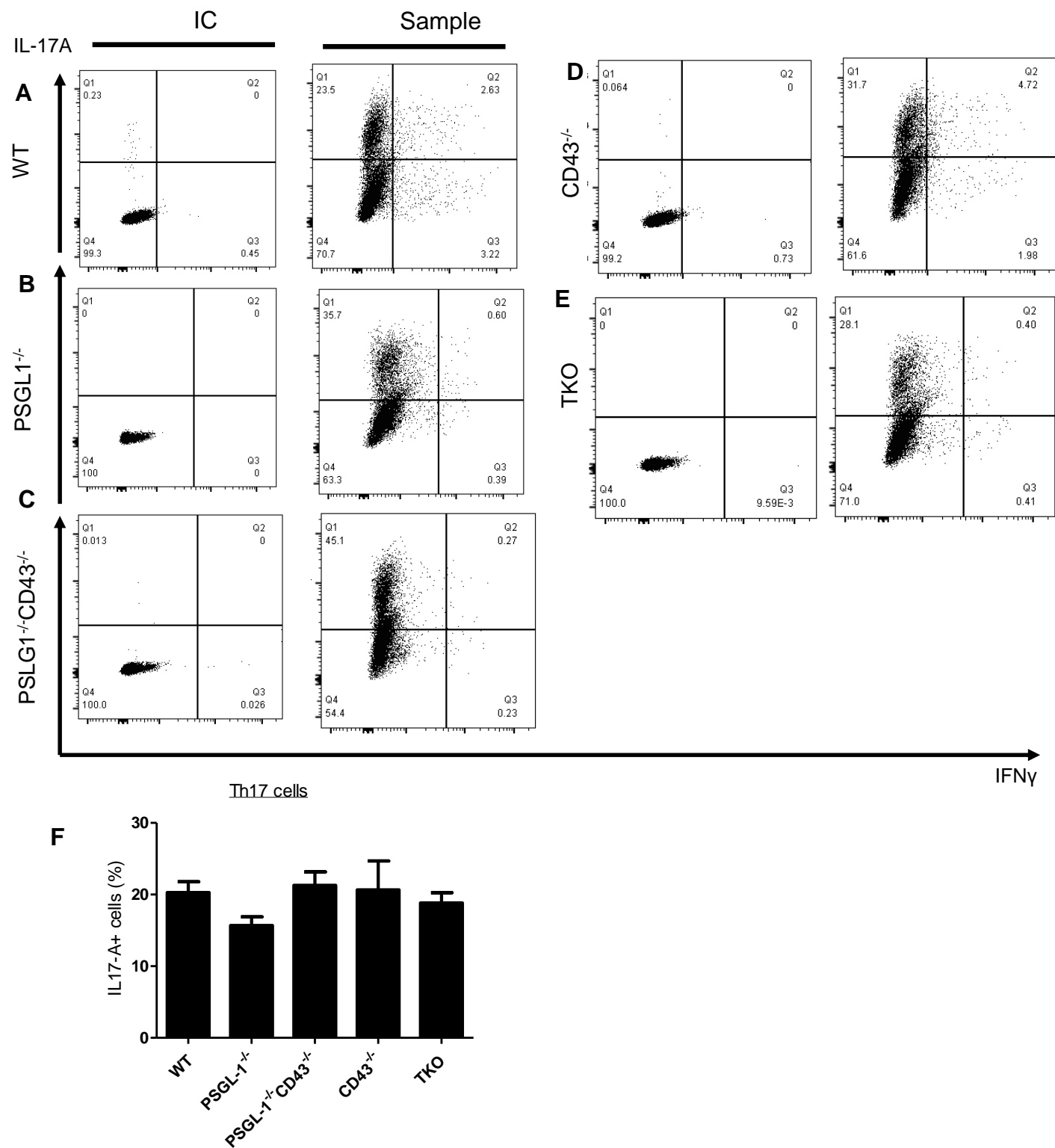
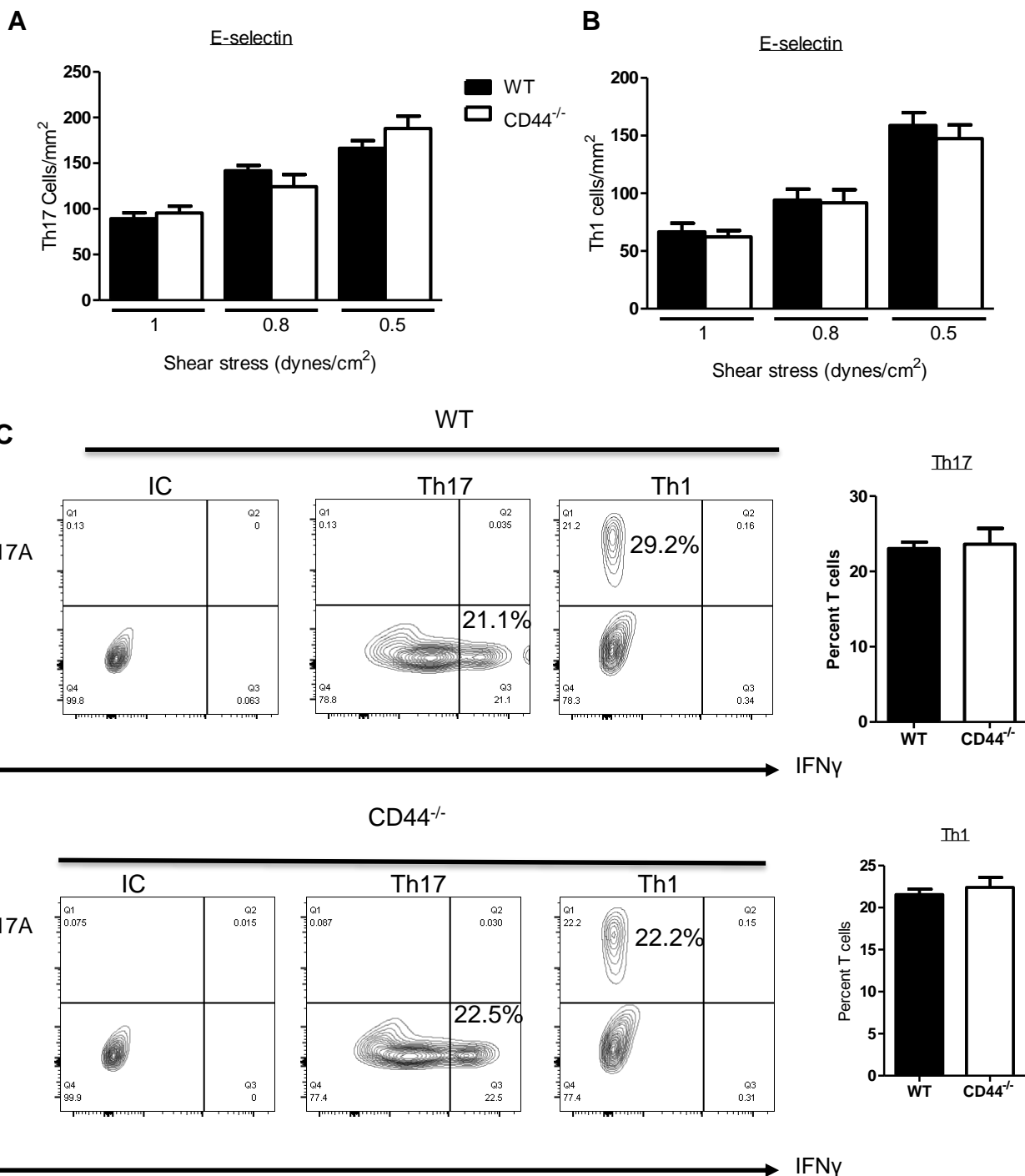


Supplemental Figure 1 :



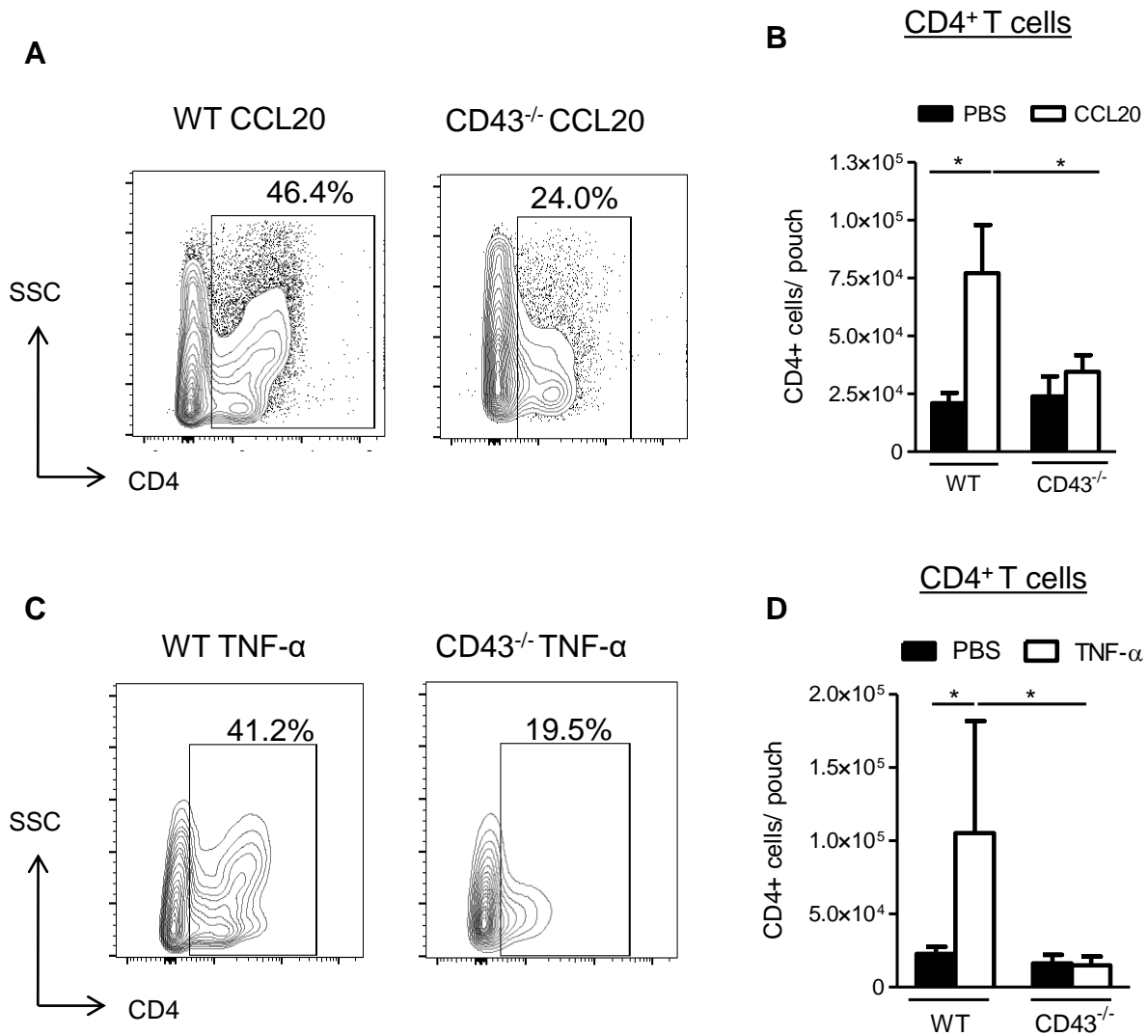
Supplemental Figure 1: Th17 differentiation in the indicated candidate scaffold molecules deficient mice. Naïve CD4⁺ T cells from WT (A), PSGL-1 (B), PSGL-1^{-/-}CD43^{-/-} DKO (C), CD43^{-/-} (D) and PSGL1^{-/-}CD43^{-/-}CD44^{-/-} (TKO) (E) mice were polarized to Th17 cells as described in methods and assessed by flow cytometry for IL17-A staining. Quantification of the percentages of IL17A⁺ cells among the different preparations for the indicated mice. A representative FACS plot is shown from 3-6 independent experiments quantified in F.

Supplemental Figure 2 :



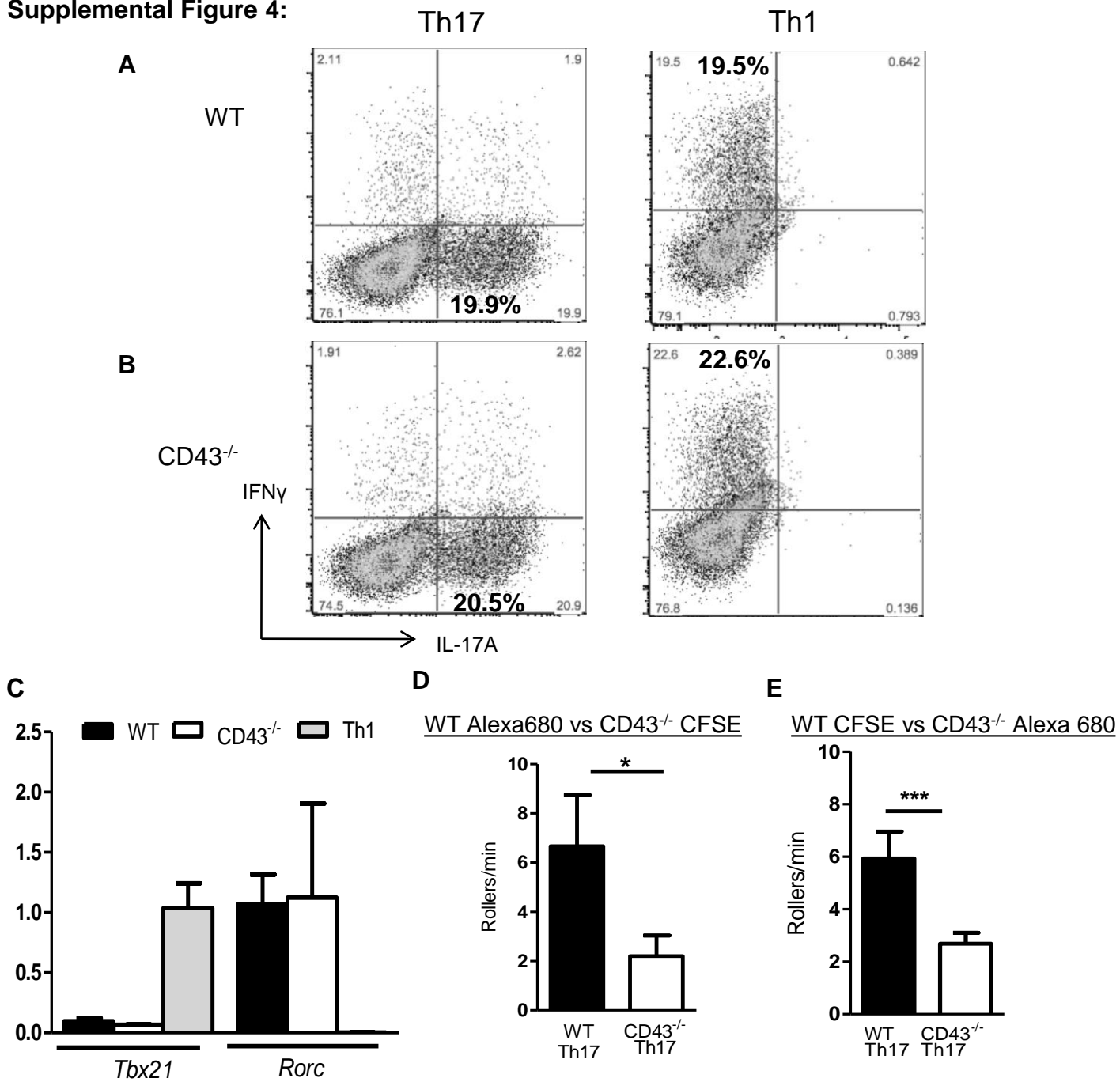
Supplemental Figure 2: WT and CD44^{-/-} Th17 and Th1 cells adhere to E-selectin in similar numbers. Naïve CD4⁺ T cells from WT and CD44^{-/-} mice were polarized to Th17 (A) and Th1 cells (B) as described in materials and methods and perfused over E-selectin coated coverslips at the indicated shear stress. CD44^{-/-} and WT naïve T cells differentiate into Th1 and Th17 cells similarly. Representative FACS plots and quantification (C-D). Data shown from 3 individual T cell preparation per cell subset.

Supplemental Figure 3:



Supplemental Figure 3: CD4⁺ cell recruitment in the air pouch of WT and CD43^{-/-} mice after CCL20 or TNF α injection *in vivo*. WT and CD43^{-/-} mice were injected with CCL20 (A-B) or TNF- α (C-D) into the air pouch. CD4⁺ T cell recruitment was assessed by flow cytometry 24h after injection. Representative FACS plots are shown along with the quantification of CD4⁺ recruitment in response to CCL20 (B) or TNF- α (D). Data is representative of 3 independent experiments with 5 mice per group for PBS and CCL20, and 4-7 mice per group for TNF- α . *p<0.05

Supplemental Figure 4:



Supplemental Figure 4: Th17 and Th1 cell differentiation from WT and CD43^{-/-} mice used in competitive rolling intravital microscopy studies. Less numbers of CD43^{-/-} Th17 cells roll on the cremaster microvasculature as compared to WT Th17 cells, regardless of the dye used for Th17 cell labeling **A**. WT and **B**. CD43^{-/-} Th17 and Th1 cells were generated from naïve isolated CD4⁺ T cells using cytokine cocktails for Th17 or Th1 cells as described in methods. Both mouse strains generated similar number of cells as assessed by flow cytometry for IL17-A (Th17 cells) and IFN γ (Th1 cells). FACS plots are representative of 3 separate experiments. **C**. Quality of T cell preparations was also verified by qPCR. Th17 cells from WT and CD43^{-/-} show similar expression of ROR γ T upon T cell differentiation. qPCR data is representative of 3-5 independent experiments. Th1 cells were used as control. **D**. Equal amounts of WT Th17 cells stained with Alexa 680 and CD43^{-/-} Th17 cells stained with CFSE were injected via the femoral artery into the cremaster muscle. This phenotype was confirmed when the dyes were inverted (**E**). Data shown from 3 individual experiments using independent T cell preparations and imaging 3-5 vessels per experiment. *p<0.05, ***p<0.005.