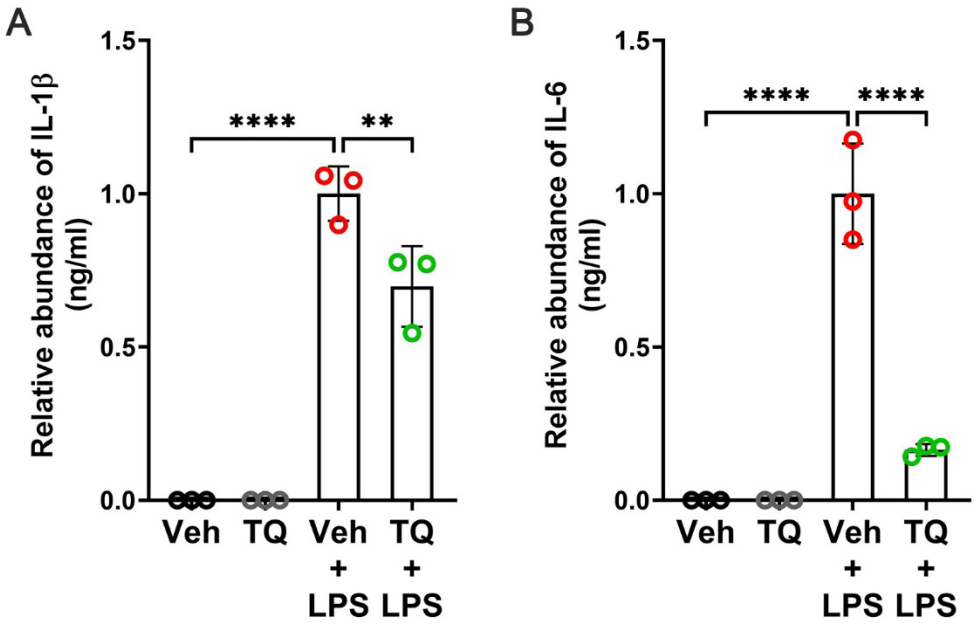
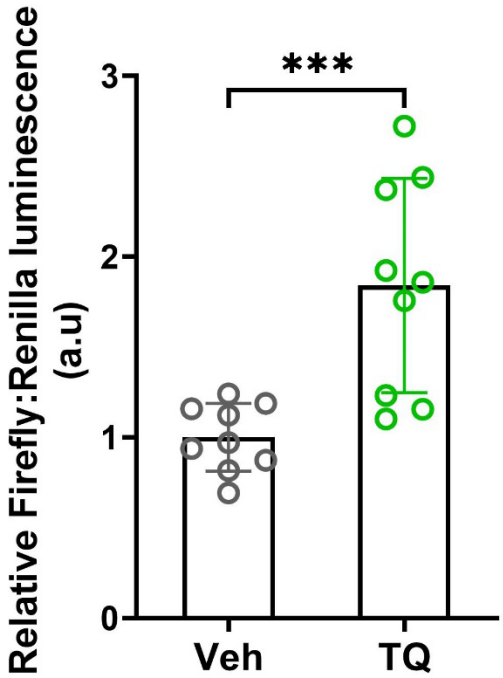
Supplementary Figure S1



Supplementary Figure S1.

In U937 cells, the addition of TQ (25 μM) along with LPS reduced the levels of IL-1β **(S1A)** and IL-6 **(S1B)** in the cell culture supernatants as assessed by ELISA. Data represented as mean ± SEM, n =3 independent experiments. One-Way ANOVA with Tukey's post-test. ** $p < 0.01$, **** $p<0.0001$.

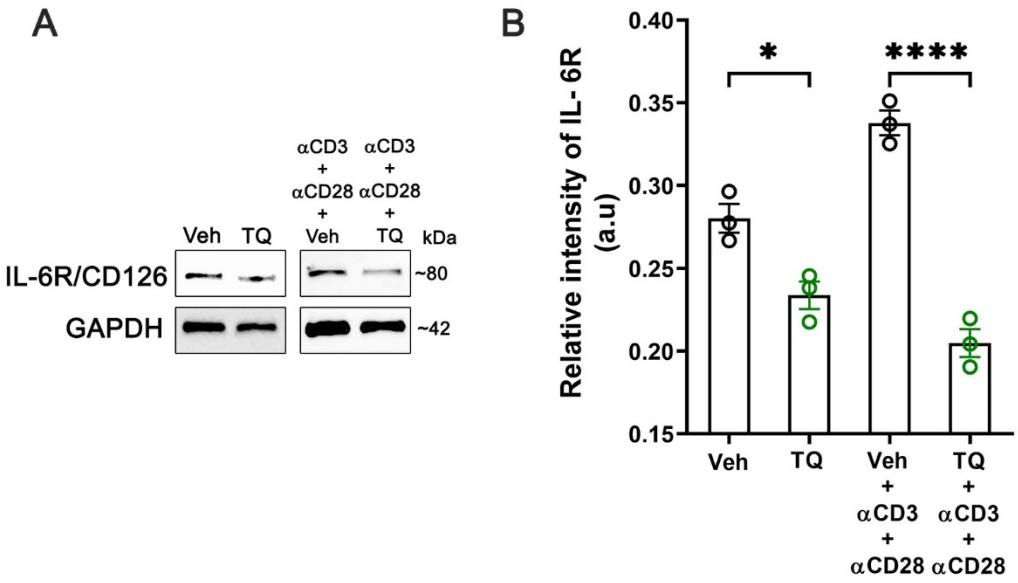
Supplementary Figure S2



Supplementary Figure S2.

U937 cells transfected with an XRE-Luciferase reporter plasmid showed increased luciferase activity upon TQ treatment demonstrating that TQ activates AhR. Data represented as mean ± SEM, n = 3 independent experiments with 3 technical replicates/experiment. Student's t-test. *** $p<0.001$.

Supplementary Figure S3



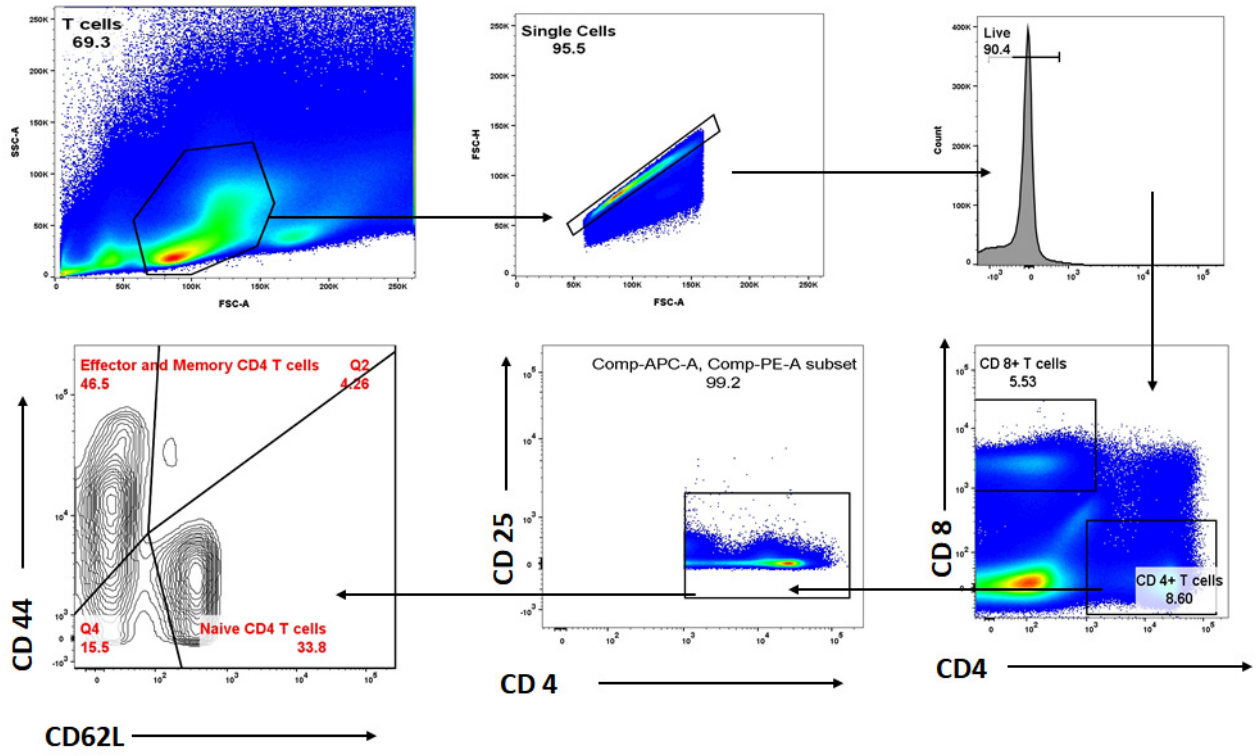
Supplementary Figure S3.

(A) Administration of TQ to FAC Sorted primary murine $CD4^+$ T cells reduced the protein levels of CD126/IL-6R in the presence or absence of the activating anti-CD3 and anti-CD28 antibodies. Image representative of 3 independent blots.

(B) Densitometric quantification of IL-6R bands normalized to GAPDH from panel A.

Data represented as mean ± SEM, n = 3 mice. One-Way ANOVA with Tukey's post-test. * $p < 0.05$, **** $p<0.0001$.

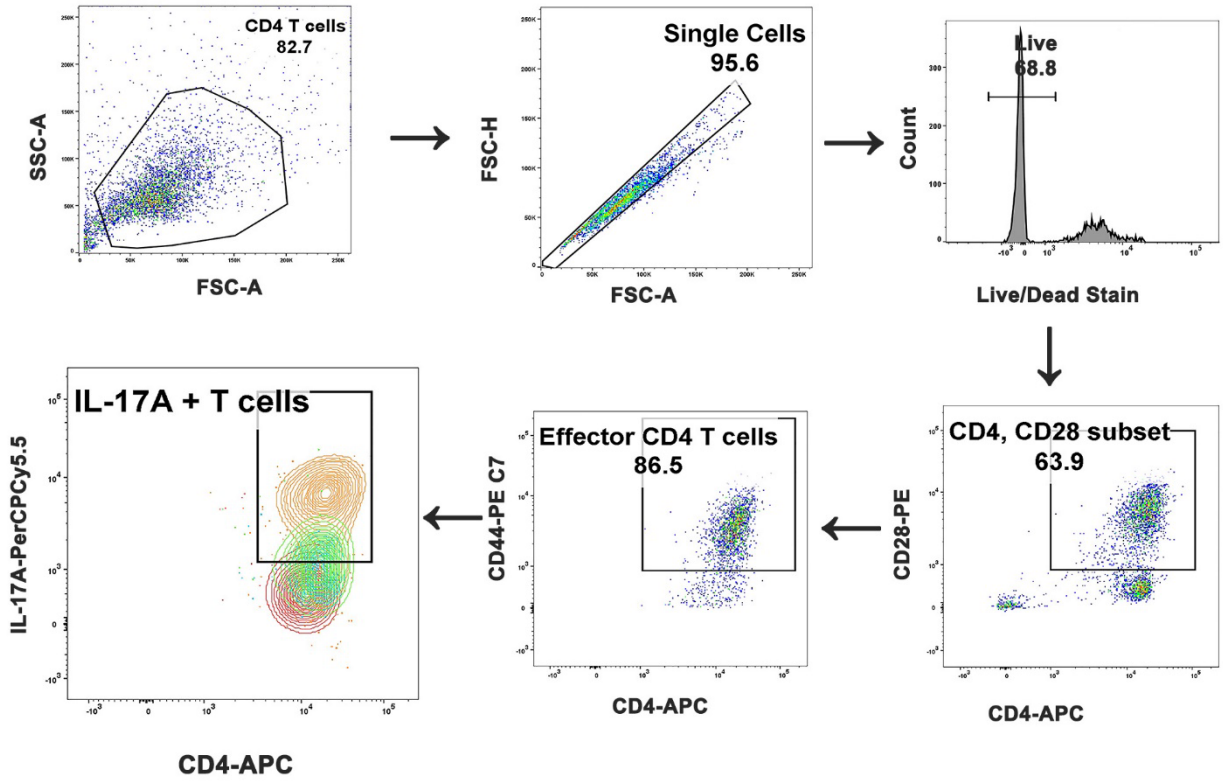
Supplementary Figure S4



Supplementary Figure S4.

Representation of the cell sorting strategy utilized to isolate naïve $CD4^+$ T-cells from WT and *Ahr* $^{-/-}$ mice.

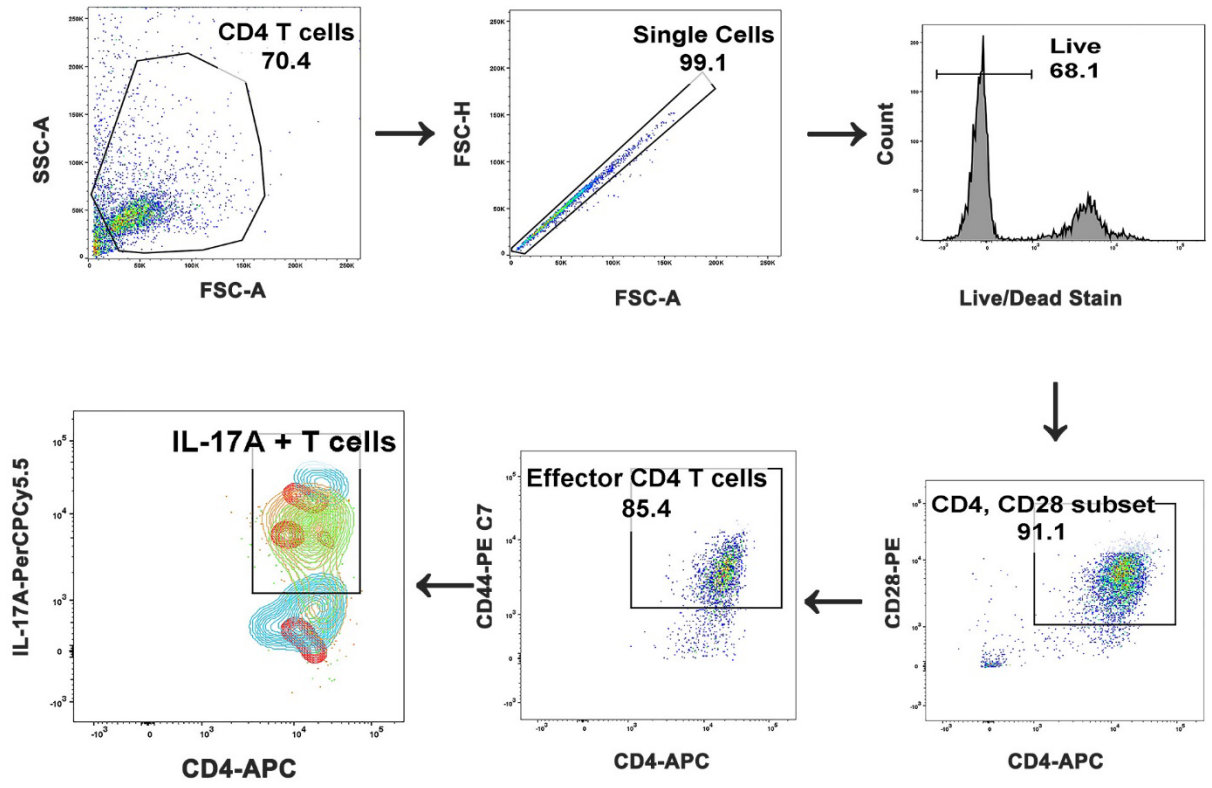
Supplementary Figure S5



Supplementary Figure S5.

Individual flow plots for identification and quantification of the Th17 cells differentiated from naïve $CD4^+$ T cells isolated from WT mice.

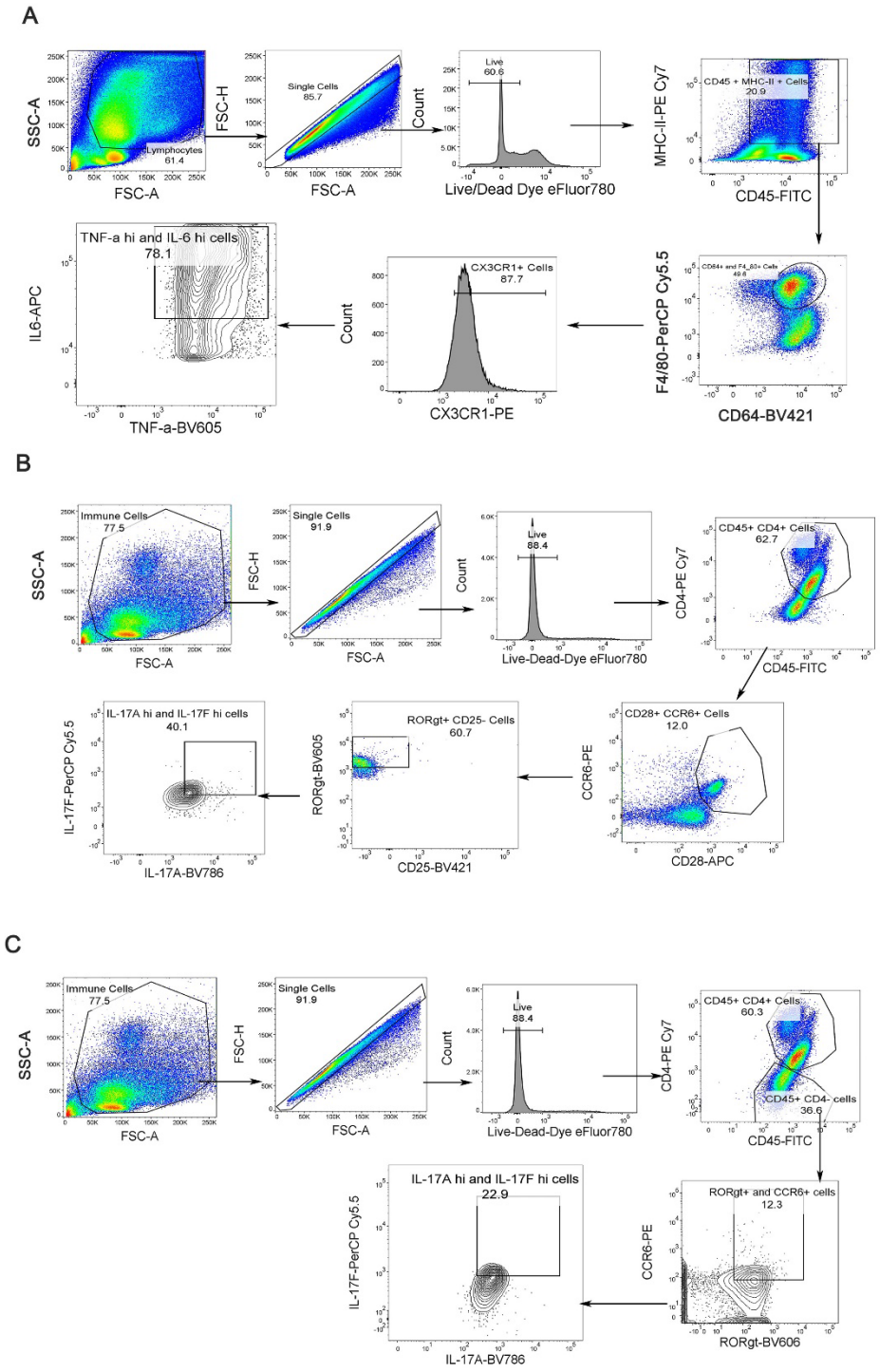
Supplementary Figure S6



Supplementary Figure S6.

Individual flow plots for identification and quantification of the Th17 cells differentiated from naïve $CD4^+$ T cells isolated from *Ahr*$^{-/-}$ mice.

Supplementary Figure S7



Supplementary Fig. S7. Gating strategy used to identify murine inflammatory macrophages (**A**), Th17 cells (**B**), and ILC3 (**C**) cells.