

Supplementation information

Aryl hydrocarbon receptor regulates Muc2 production independent of IL-22 during colitis

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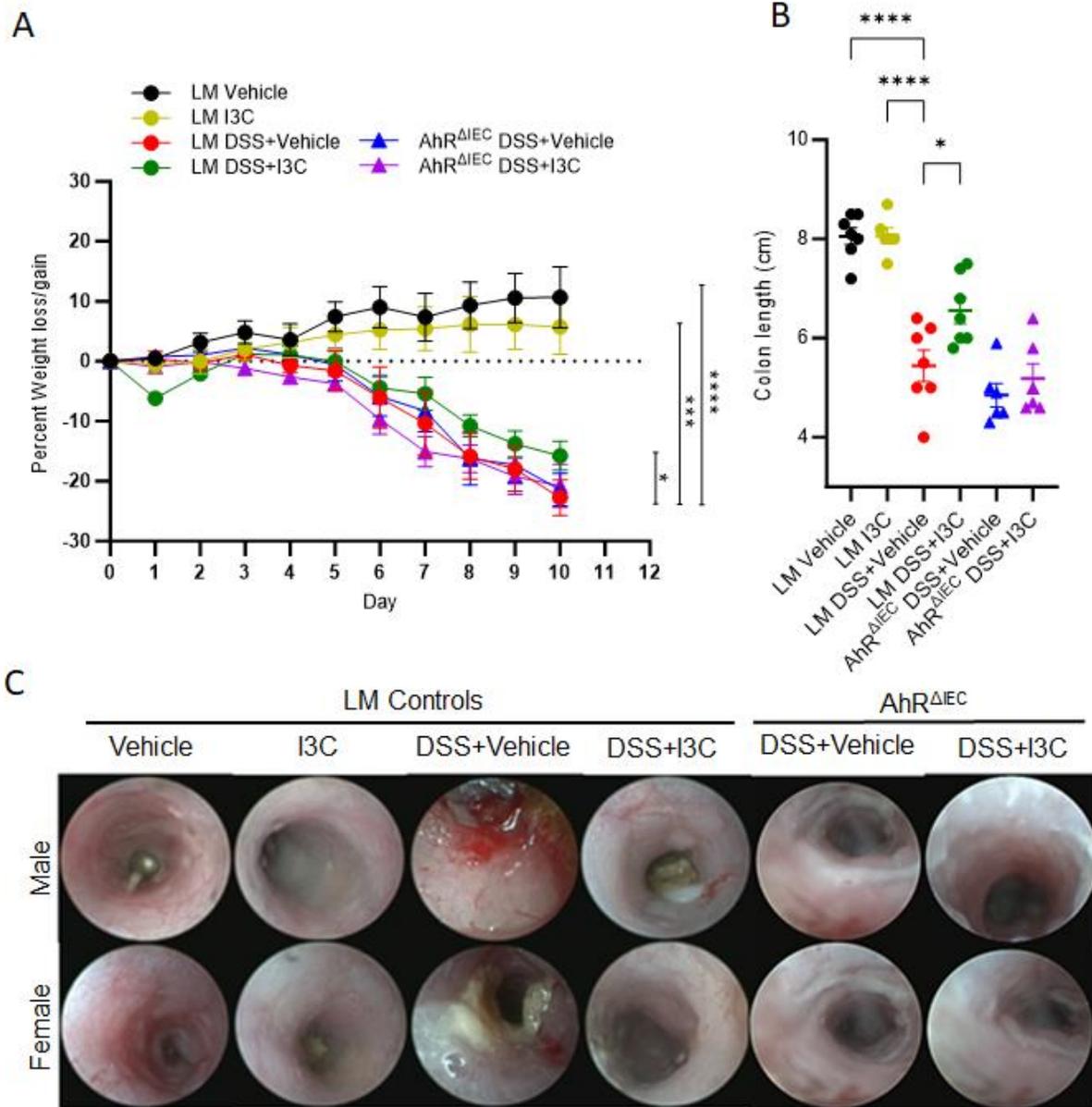


Figure S1. AhR expression in IECs is essential for I3C-mediated protection against DSS-induced colitis in littermate (LM) male and female mice, related to Figures 1-3. **(A)** Percent weight data. **(B)** Colon length. **(C)** Representative colonoscopy images taken on day 9 of DSS colitis from experimental groups. For dot plots, significance was determined using one-way ANOVA and Tukey's multiple comparisons test. For weight data over time, two-way ANOVA and Dunnett's multiple comparisons test was used to determine significance (* $p < 0.05$, *** $p < 0.005$, **** $p < 0.001$).

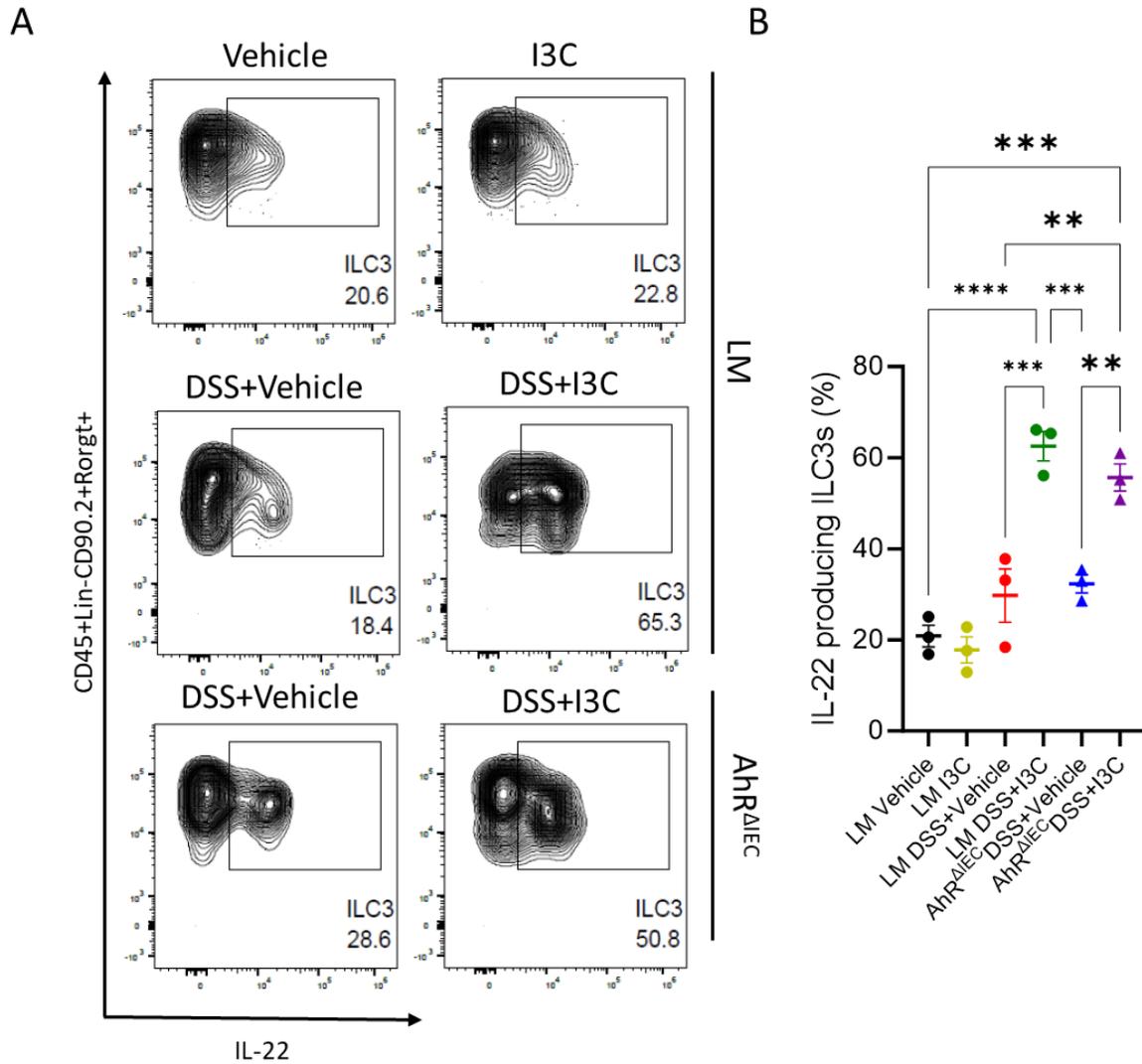


Figure S2. AhR expression in IECs does not impact production of IL-22 by ILC3s during DSS-induced colitis and treatment with I3C, related to Figures 1-3. **(A)** Representative flow cytometry plots depicting percentage of IL-22 producing ILC3s (CD45+Lin-CD90.2+Rorgt+). **(B)** Dot plot representing percent IL-22-producing ILC3s from experimental groups. For dot plots, significance was determined using one-way ANOVA and Tukey's multiple comparisons test. For weight data over time, two-way ANOVA and Dunnett's multiple comparisons test was used to determine significance (** $p < 0.01$, *** $p < 0.005$, **** $p < 0.001$).