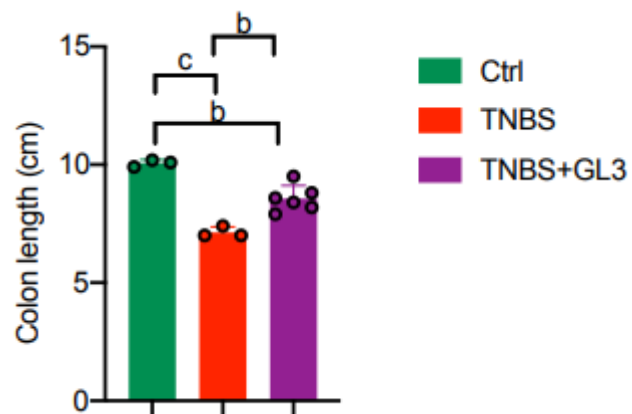
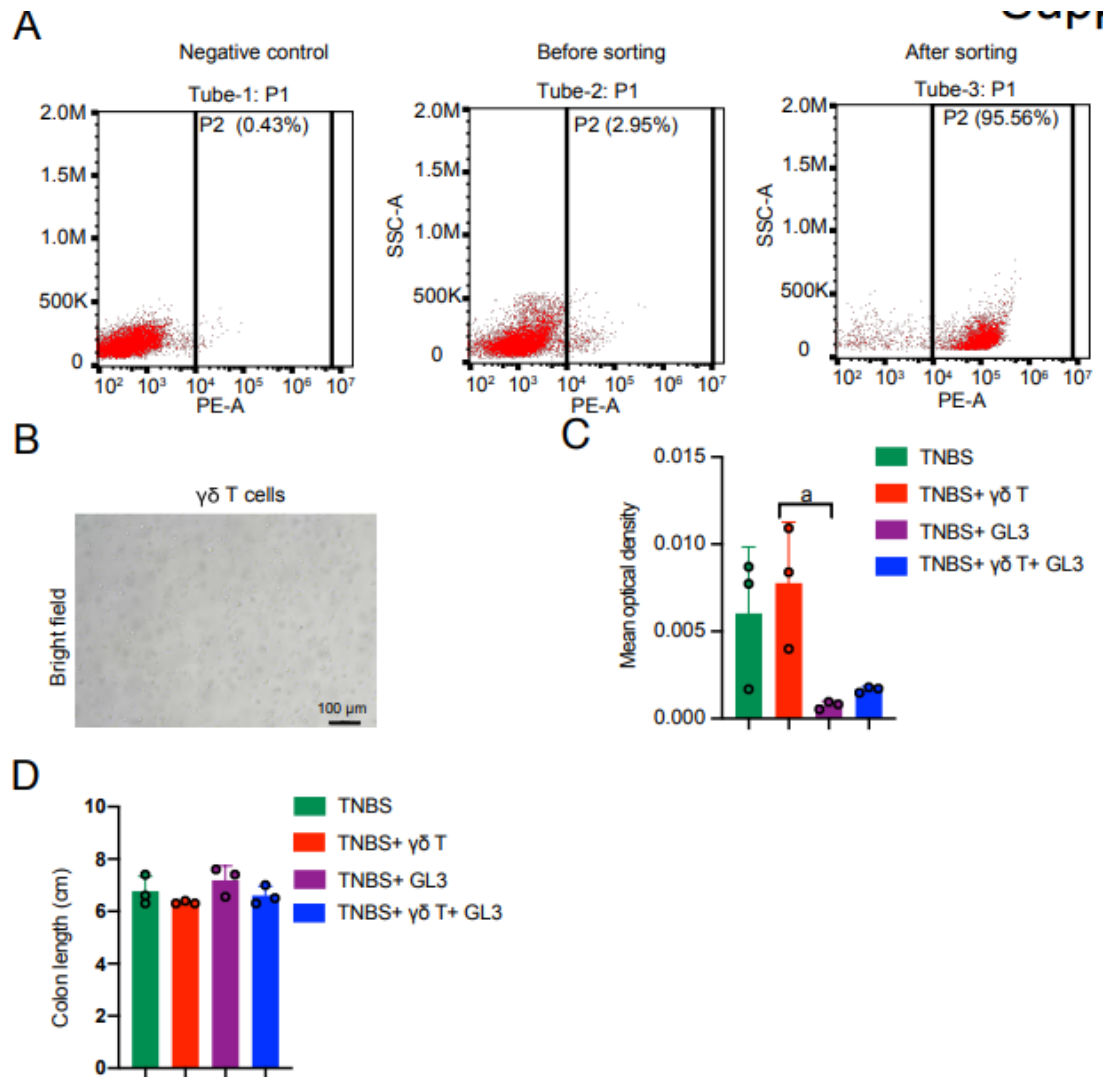


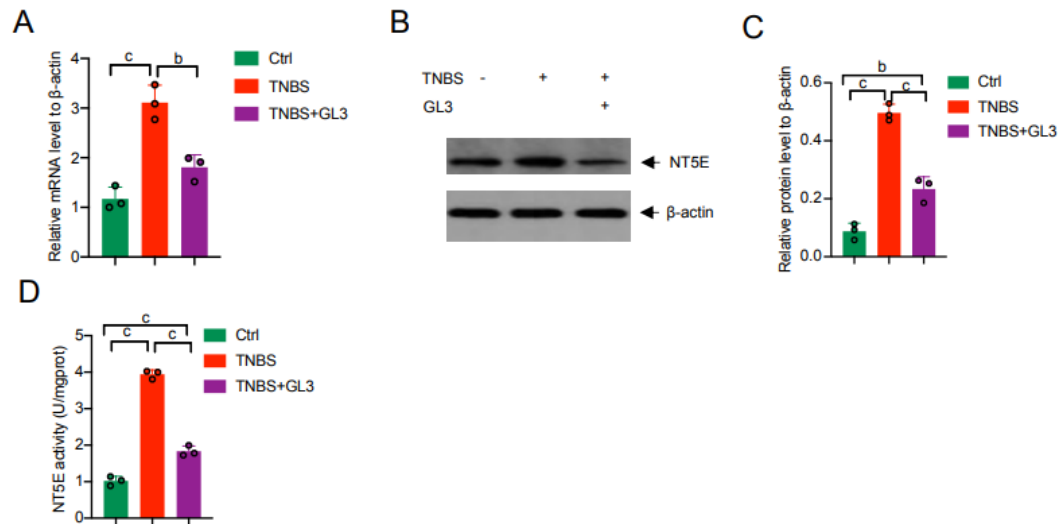


Supplementary Figure 1 Depletion of $\gamma\delta$ T cells prevented intestinal fibrosis.

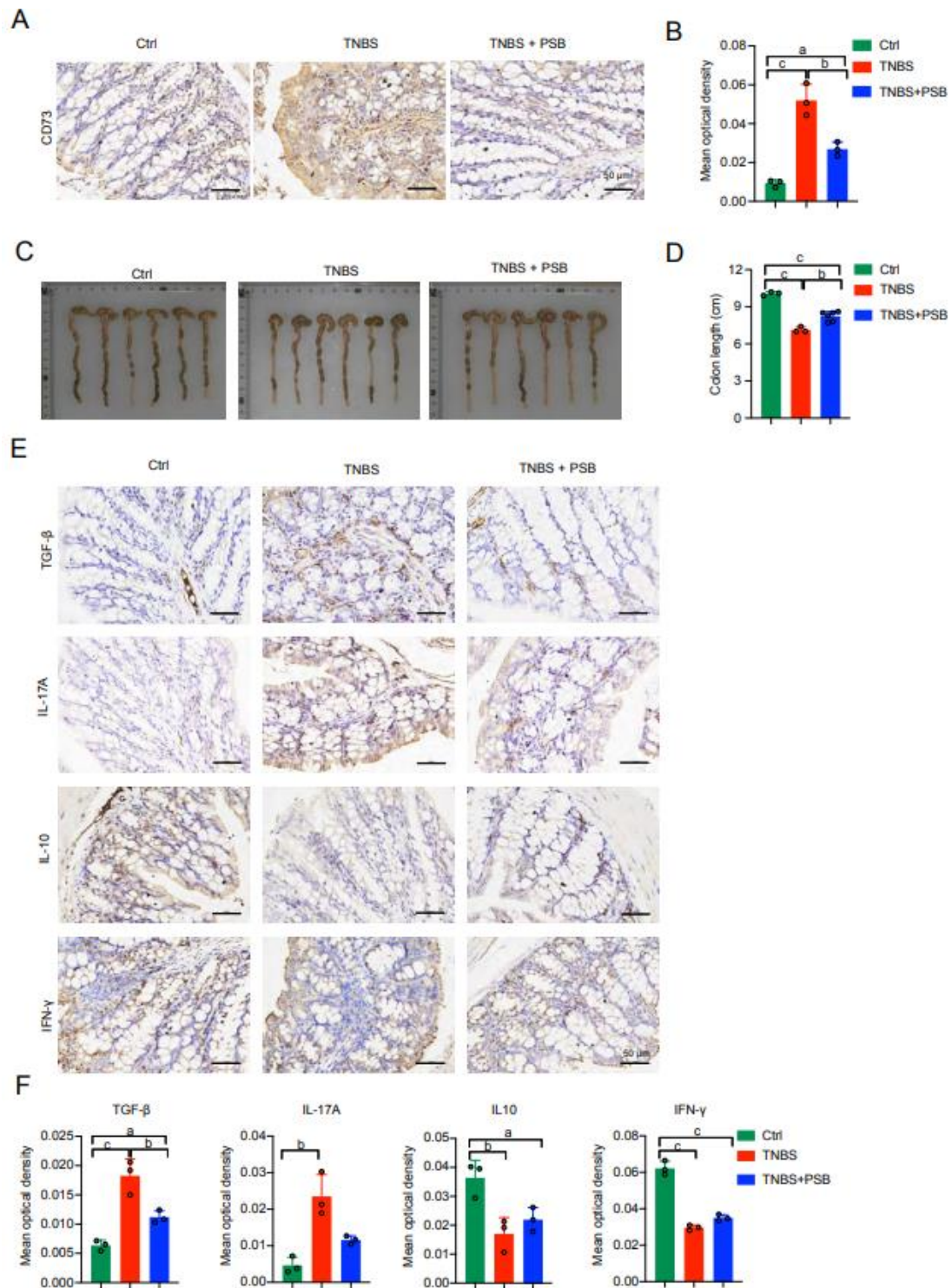
Colon length in each group at the end of week 14. Data were presented as mean $\pm$ SD. Statistical significance, ^a $P < 0.05$, ^b $P < 0.01$, ^c $P < 0.001$.



Supplementary Figure 2 Reinfusion of $\gamma\delta$ T cells aggravated intestinal fibrosis. A: FACS of isolated $\gamma\delta$ T cells; B: The image of sorted $\gamma\delta$ T cells; C: Quantification of TCR staining of Fig. 2B, expressed as mean optical density; D: Colon length in each group at the end of week 14. Data were presented as mean $\pm$ SD. Statistical significance, ^a $P < 0.05$, ^b $P < 0.01$, ^c $P < 0.001$.

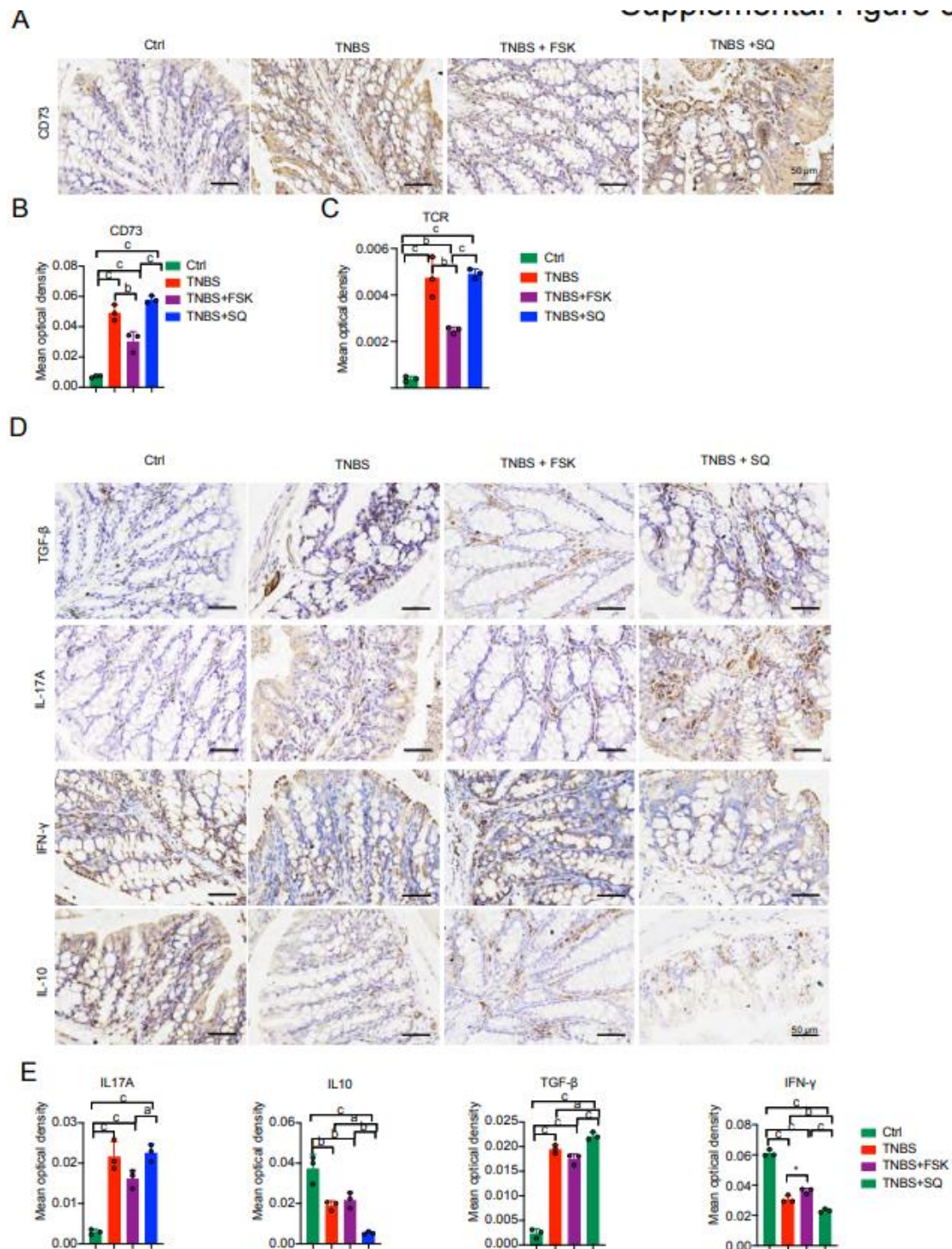


Supplementary Figure 3 CD73 was downregulated after $\gamma\delta$ T cells depletion in mice with intestinal fibrosis. A: qPCR analysis of the expression of CD73 gene in mice treated with TNBS and TNBS + GL3 antibody injection. Normal colon tissues were used as the control ($n=3$ in each group). Data are presented as relative mRNA levels normalized to β -actin; B and C: Western blot and the quantification result of the expression levels of CD73. Colon tissues from each group were analyzed; D: The 5'- nucleotidase activity of CD73 in each group ($n = 3$). Data were presented as mean $\pm$ SD. Statistical significance, ^a $P < 0.05$, ^b $P < 0.01$, ^c $P < 0.001$.



Supplementary Figure 4 Inhibition of CD73 attenuated intestinal fibrosis. A and B: IHC staining of CD73 and the quantification of average optical density of CD73 in the colon tissues. Quantification of IHC staining expressed as mean optical density. Scale bars, 50 μ m; C and D: Colon morphology and length in each group at the end of week 14; E and F: IHC staining of IL-17A, TGF- β , IFN-

γ and IL10 and the quantification of average optical density of these proteins in the colon tissues. Quantification of IHC staining expressed as mean optical density. Scale bars, 50 μ m. Data were presented as mean $\pm$ SD. Statistical significance, ^a P < 0.05, ^b P < 0.01, ^c P < 0.001.



Supplementary Figure 5 Increased cAMP levels prevented intestinal fibrosis.

A and B: IHC staining of CD73 and the quantification of average optical density of CD73 in the colon tissues in the mice treated with TNBS or TNBS+ Forskolin or TNBS+ SQ22536. Quantification of IHC staining expressed as mean optical density. Scale bars, 50 μ m; C: Quantification of TCR IHC staining expressed as mean optical density; D and E: IHC staining of IL-17A, TGF- β , IFN- γ and IL10

and the quantification of average optical density of these proteins in the colon tissues in the mice treated with TNBS or TNBS+ Forskolin or TNBS+ SQ22536. Quantification of IHC staining expressed as mean optical density. Scale bars, 50 μ m. Data were presented as mean $\pm$ SD. Statistical significance, ^a*P* < 0.05, ^b*P* < 0.01, ^c*P* < 0.001.