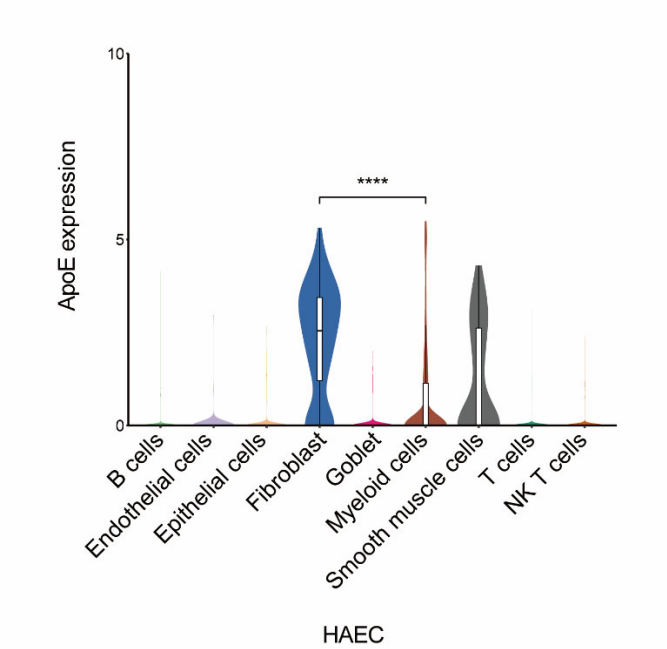
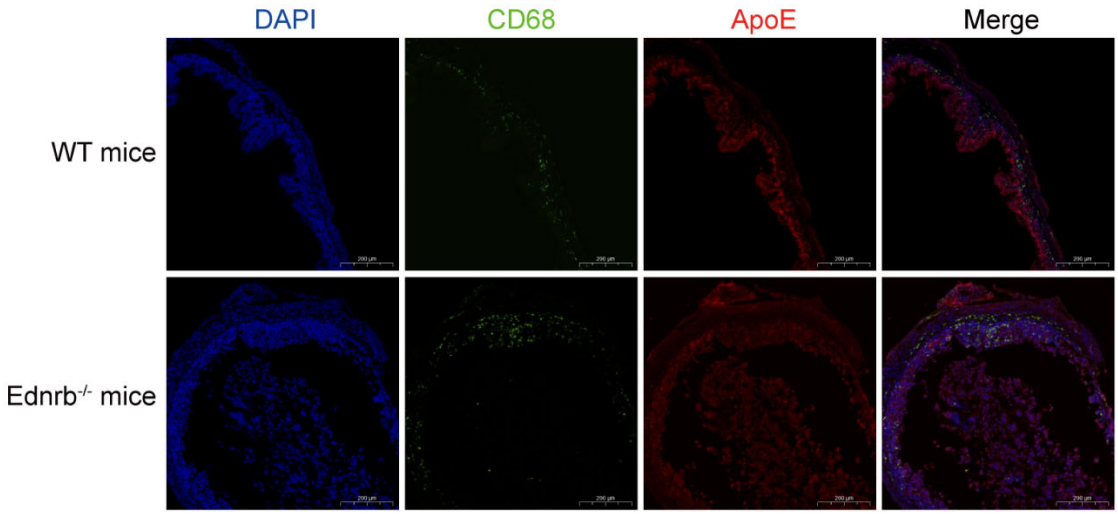
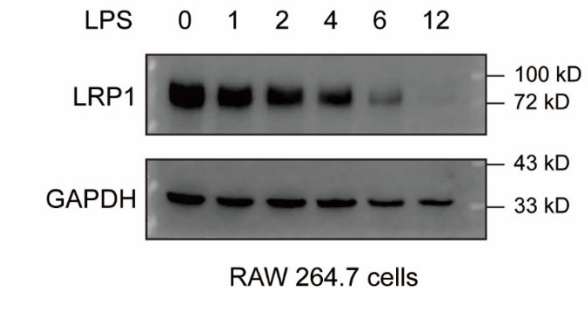
Supplementary Figures



Supplementary Figure S1. Violin plot showing the expression levels of ApoE across each cell clusters in the aganglionic segment of the HAEC patient. Single-cell RNA sequencing analysis was performed to evaluate ApoE expression. The y-axis represents the expression level of ApoE, and the x-axis represents different cell clusters. Fibroblasts exhibited the highest expression of ApoE compared to all other cell clusters (all $p < 0.05$, File S3. Supplementary Table 1). Notably, a statistically significant difference was also observed between Fibroblasts and Myeloid cells. Statistical significance was determined using the Wilcoxon rank-sum test. **** p value < 0.0001



Supplementary Figure S2. Representative IF images of CD68 (green) and ApoE (red) staining in the colon tissue of WT mice and the aganglionic segment of *Ednrb*$^{-/-}$ mice. No significant spatial overlap between CD68^{+} macrophages and ApoE was observed. $n = 3$. Scale bars: 200 μm.



Supplementary Figure S3. Western blot analysis of LRP1 expression in RAW 264.7 cells following LPS stimulation. RAW 264.7 cells were treated with LPS (1ug/ml) for the indicated time points (0, 1, 2, 4, 6, and 12 h). GAPDH was used as an internal loading control. The results showed a time-dependent decrease in LRP1 protein levels. $n = 3$.