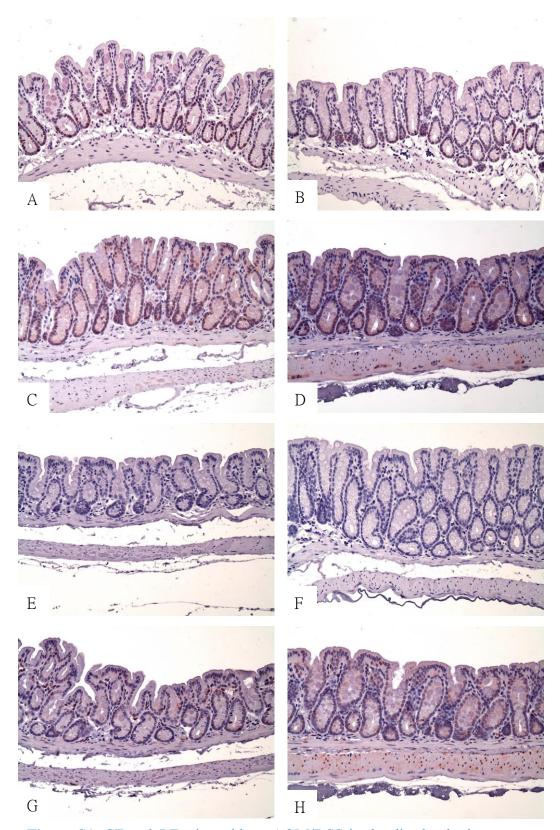
## 1 Supplement data

## 2 Table S1. General observation in the GF and BF mice.

General observations	GF	BF
Body weight (g)	$32.97 \pm 2.05$	33.84 ± 2.00
Spleen (g)	$0.064 \pm 0.007$	$0.063 \pm 0.012$
Cecum (g)	4.31 ± 0.99	$3.17 \pm 0.56^*$
Spleen (% of body weight)	$0.24 \pm 0.02$	$0.23 \pm 0.04$
Cecum (% of body weight)	$15.8 \pm 2.6$	$11.4 \pm 1.7*$
Colon length (cm)	$9.8 \pm 0.4$	$9.5 \pm 0.5$

\*p< 0.05 compared with GF



**Figure** <u>S1</u>. GF and *BF* mice without AOM/DSS in the distal colonic segment. Immunostaining for PCNA,  $\beta$ -catenin, Ly6G and COX2 in colon tissue sections. GF group (A, C, E, G) and *BF* group (B, D, F, H). The numbers of PCNA, Ly6G, COX2 positive cells and relative intensity of  $\beta$ -catenin were counted in the GF and *BF* group. Original magnification ×200.