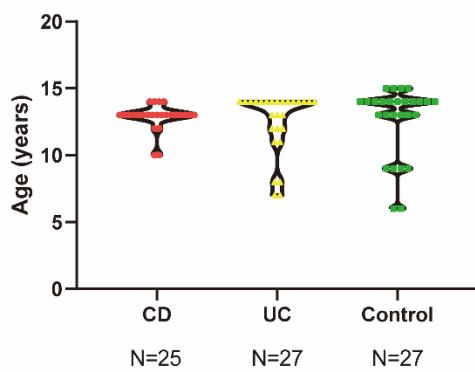


Supplementary Materials

Supplemental Figures

A



B

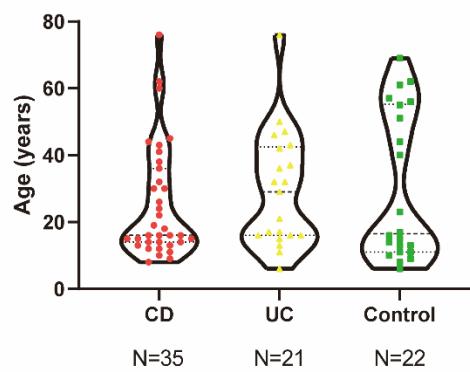


Fig S1. The characteristics of human cohort. A shows the characteristics of the cohort from E-MTAB-5464. B shows the characteristics of the cohort from IBDMDB. IBDMDB: The Inflammatory Bowel Disease Multiomics Database.

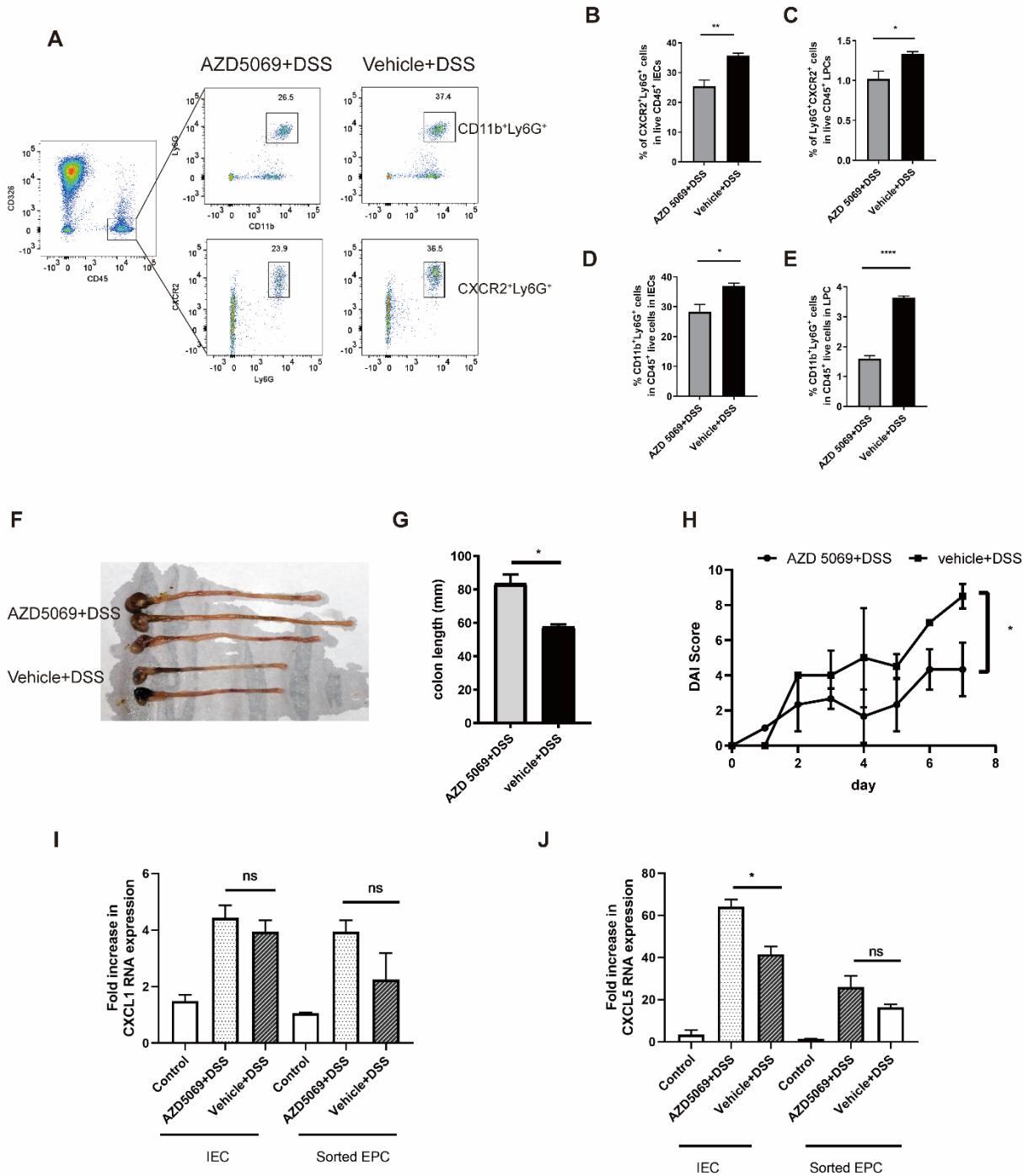


Fig S2. CXCR2 blockade reduces neutrophil migration. DSS-induced colitis WT mice treated with a CXCR2 antagonist or vehicle. **(A to E)** Flow cytometry analysis of Ly6G⁺CD11b⁺ neutrophils and Ly6G⁺CXCR2⁺ cells in two groups. **(F and G)** Colon length compared between two groups. **(H)** Disease score compared between two groups. **(I and J)** CXCL1 and CXCL5 RNA expression in IECs and sorted epithelial cells compared among different groups [mean±SEM, Student's t test, *P≤0.05, **P≤0.01, ****P≤0.0001, ns: no significant difference, n=3 per group].

Supplemental tables

Table S1. The characteristics of CD and UC according to endoscopy

	CD n=25	UC n=6
Median duration of disease in months (IQR)	22 (46.0)	11 (16.3)
Active/Nonactive*	17/8	5/1
Paris age classification		
<10 y (A1a)	13 (52.0)	2 (33.3)
10-<17 y (A1b)	9 (36.0)	4 (66.7)
17-40 y (A2)	3 (12.0)	0 (0.0)
Paris CD location		UC disease location
L1	4 (16.0)	E1
L2	10 (40.0)	E2
L3	11 (44.0)	E3
L4	5 (20.0)	E4
Paris CD behavior		Mayo score
B1	22 (88.0)	Mayo 1
B2	2 (8.0)	Mayo 2
B3	1 (4.0)	Mayo 3
B2B3	0 (0.0)	PUCAI mean±SD
Perianal disease		20±14.5
Yes	9 (36.0)	
No	16 (64.0)	
PCDAI mean±SD	15.5±14.3	
CD-SES	10.7±7.6	

*Nonactive defined as PCDAI/PUCAI<10.

Table S2. The characteristics of IBD patients and control subjects

	IBD	Control	P value
Number	31	29	
Sex, male/female	16/15	17/12	0.297
Age (yr) mean±SD	8.64±6.6	6.9±4.7	0.468
Median (IQR)	10 (13)	6 (9)	
Diagnosis (CD/UC)	25/6		
PAI-1 (pg/ml) mean±SD	14,013.4±4,739.3	9,271.5±3,665.9	<0.001
PLT ($10^9/L$)	391.1±182.7	294.8±7,521	0.063
HGB (g/L)	116.7±17.8	128.7±12.5	0.008
Fg (g/L)	2.94±0.9	2.35±1.0	0.055
WBCs ($10^9/L$)	10.1±5.6	7.4±3.5	0.018
NE (%)	49.2±12.6	41.7±14.1	0.015
ASCA IgA (U/ml)	52.9±15.0	36.9±10.6	0.693
ASCA IgG (U/ml)	58.1±16.5	88.7±29.3	0.522
Fecal Calprotectin (ng/mg)	2,650±355.3	1,951±411.4	0.214

CD: Crohn's disease, UC: ulcerative colitis, PLT: platelets, HGB: hemoglobin, Fg: fibrinogen, WBCs: white blood cells, NE: neutrophils, ASCA: anti-*Saccharomyces cerevisiae* antibody.

Table S3. The category numbers for PCR array sets and Primers assays.

REAGENT	SOURCE	Category number
Mouse Inflammatory Response & Autoimmunity 384HT	QIAGEN, Valencia, CA	330231 PAMM-3803ZE
Mouse NF κ B Signaling Pathway	QIAGEN, Valencia, CA	330231 PAMM-025ZA
Cxcl1	QIAGEN, Valencia, CA	PPM03058C-200
Cxcl5	QIAGEN, Valencia, CA	PPM02966F-200
Cxcr2	QIAGEN, Valencia, CA	PPM03029A-200
Tnf	QIAGEN, Valencia, CA	PPM03113G-200
icam1	QIAGEN, Valencia, CA	PPM03196A-200
Gapdh	QIAGEN, Valencia, CA	PPM02946E-200
Actb	QIAGEN, Valencia, CA	PPM02945B-200