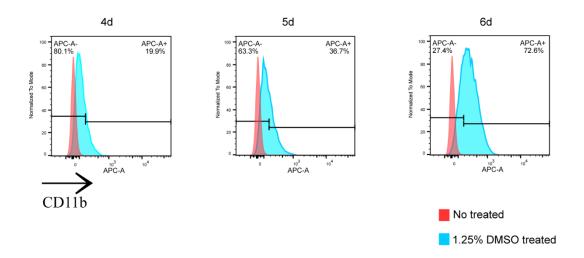
Contents of supplementary materials

Supplemental Figure 1. HL-60 differentiated into neutrophil-like cells by DMSO.

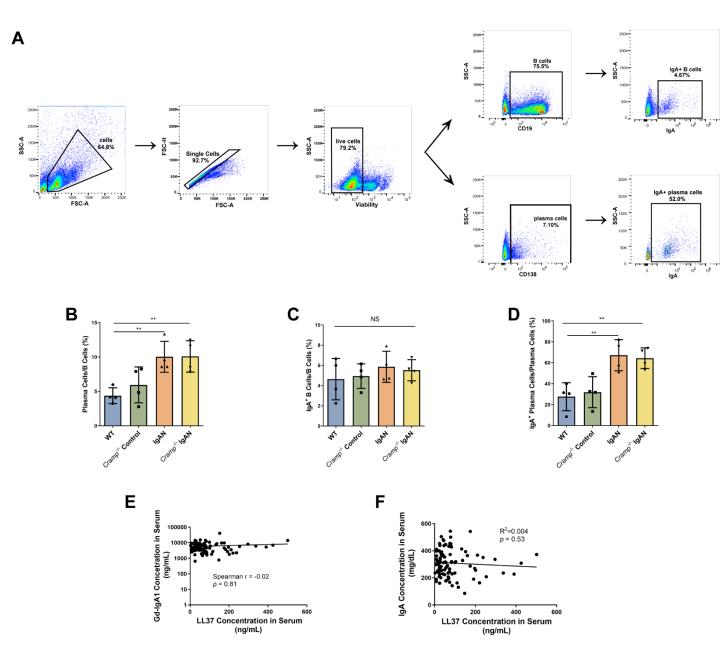
Supplemental Figure 2. LL37/CRAMP is unlikely to be involved in pathogenic IgA overproduction.

Supplemental Table 1. Baseline clinicopathologic characteristics of participants.

Supplemental Table 2. Baseline peripheral leukocytes counts of IgAN patients grouped by prognosis.



Supplemental Figure 1. HL-60 differentiated into neutrophil-like cells by DMSO.



Supplemental Figure 2. LL37/CRAMP is unlikely to be involved in pathogenic IgA overproduction. (A) The representation gating strategy of cell sorting. (B-D) The percentage of plasma cells/B cells (B), IgA+ B cells/B cells (C), and IgA+ plasma cells/plasma cells (D) in the Peyer's patches of mice. (E) Correlation analysis between serum Gd-IgA1 levels and serum LL37 levels by Spearman correlation analysis. (F) Correlation analysis between serum IgA levels and serum LL37 levels by Spearman correlation analysis. **p < 0.01.

Supplemental Table 1. Baseline clinicopathologic characteristics of participants

	Healthy Controls(n=38)	IgAN-Stable(n=503)	IgAN-ESRD(n=52)	P value
Male, n (%)	7 (18.42%)	232 (46.12%)	30 (57.69%)	0.001
Age (yr), median (IQR)	35.00 (28.25-39.75)	37.00 (29.00-47.00)	33.00 (27.25-46.75)	0.13
UPCR (g/g), median (IQR)	NA	0.74 (0.38-1.40)	2.53 (1.43-3.86)	< 0.001
Serum creatinine (µmol/L), median (IQR)	NA	82.00 (64.00-103.00)	176.00 (132.25-236.50)	< 0.001
eGFR (mL/min per 1.73 m²)	NA	94.60 (71.01-112.36)	37.15 (27.16-53.44)	< 0.001
SBP (mmHg), median (IQR)	NA	125.00 (115.00-136.00)	143.50 (126.00-159.50)	< 0.001
DBP (mmHg), median (IQR)	NA	80.00 (73.00-88.00)	90.50 (83.00-104.75)	< 0.001
Oxford classification, n(%)				
M1	NA	86 (17.10)	21 (41.18)	< 0.001
E1	NA	24 (4.77)	5 (9.80)	0.17
S1	NA	402(79.92)	47 (92.15)	0.034
T1-T2	NA	56 (11.13)	38 (74.50)	< 0.001
C1-C2	NA	169 (33.60)	26 (50.98)	0.013
Follow-up time (m), median (IQR)	NA	71.00 (50.00-93.00)	73.55 (42.97-88.00)	0.74

IQR, interquartile range; UPCR, urine protein to creatinine ratio; NA, not available; eGFR: estimated glomerular filtration rate; SBP: systolic blood pressure; DBP: diastolic blood pressure; M1, mesangial hypercellularity; E1, endocapillary hypercellularity; S1, segmental glomerulosclerosis; T, tubular atrophy/interstitial fibrosis; T1, T 26%–50%; T2, T >50%; C0, no crescents; C1, crescents in less than one fourth of glomeruli; C2, crescents in over one fourth of glomeruli.

Supplemental Table 2. Baseline peripheral leukocytes counts of IgAN patients grouped by prognosis

	IgAN-Stable(n=503)	IgAN-ESRD (n=52)	P value
Neutrophil counts (*10 ⁹ /L)	3.50 (2.80-4.50)	3.85 (3.13-5.18)	0.019
Lymphocyte counts (*10 ⁹ /L)	2.00 (1.60-2.40)	1.90 (1.60-2.45)	0.61
Neutrophil to lymphocyte ratio	1.75 (1.36-2.31)	1.98 (1.66-2.77)	0.006
(NLR)			
Monocyte counts (*10 ⁹ /L)	0.41 (0.32-0.52)	0.39 (0.33-0.56)	0.75
Eosinophil counts(*10 ⁹ /L)	0.13 (0.09-0.20)	0.19 (0.11-0.29)	0.004
Basophil counts (*10 ⁹ /L)	0.02 (0.01-0.03)	0.02 (0.01-0.04)	0.56