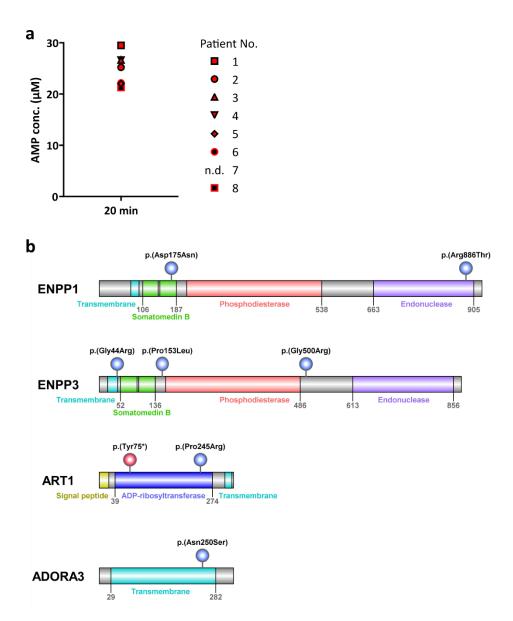


Supplementary Figure 2 Distribution of B cell subsets.

Relative distribution of B cell subsets in HC and SLE peripheral blood analysed by flow cytometry (HC n=15, SLE n=23 donors). Means \pm SD. P>0.05 [Multiple t tests].



Supplementary Figure 3 AMP metabolism of SLE B cells applied to DNA sequencing and location of identified sequence variants in affected proteins.

a AMP concentrations in the supernatant of SLE B cells, which were applied to DNA sequencing, after 20 min incubation with 20 μ M AMP as measured by HPLC. n.d. not determined. **b** Location of the via DNA sequencing of SLE B cells identified amino acid shifts in the affected proteins. Protein domain locations were taken from Pfam (http://pfam.xfam.org/). Red: protein truncating variant; blue: missense variant.

Patient characteristics [units, normal range]		mean	(SD)
number of patients [n]		68	
age [yrs]		45.8	(13.7)
sex (n)	female	59	
	male	9	
disease duration [yrs]		17.1	(10.1)
SLE Disease Activity Index 2000 (SLEDAI-2K)		3.0	(3.0)
SLE Questionnaire for Population Studies (SLAQ)		6.0	(5.5)
BMI [kg/m2]		24.6	(4.0)
CRP [mg/dl, < 0.5]		0.3	(0.3)
LDH [U/l, < 247]		217.5	(58.5)
AST [U/l, < 31]		26.6	(9.1)
ALT [U/l, < 35]		22.6	(10.4)
hemoglobin [mg/dl, 11.9-14.6]		13.2	(1.6)
leukocytes [x1000/µl, 4.5 – 12.7]		6.4	(2.3)
C3 [mg/dl, 90 - 180]		100.1	(26.2)
C4 [mg/dl, 10 - 40]		16.9	(8.7)
IgG [mg/dl, 700 - 1600]		1232.0	(314.7)
IgA [mg/dl, 70 - 500]		234.6	(100.9)
IgM [mg/dl, 40 - 280]		123.9	(131.5)
anti-dsDNA antibodies [IU/ml, < 80]		230.4	(219.0)
creatinin [mg/dl, < 0.9]		0.8	(0.2)
GFR [ml/min, 90 - 140]		91.3	(20.1)
Urin analysis:			
-erythrocytes [$/\mu l$, < 23]		17.0	(11.2)
-leukocytes [/µl, < 20]		33.0	(48.8)
-protein [mg/gCreatinin, < 150]		146.4	(194.6)