

Table S1. Absolute cell numbers ($\times 10^6$ cells) of whole and different populations in the spleen, bone marrow, peritoneal cavity, and thymus in B-TG and B-NTG mice

Spleen

	Total	T cells		B cells	Mat.	Imm.	MZB	FBC	Macs
		CD4 ⁺	CD8 ⁺	B220 ⁺	IgM ⁺	IgM ⁺	CD21 ⁺	CD23 ⁺	CD21 ⁻
		CD3 ⁺	CD3 ⁺	IgD ⁺	IgD ⁻	CD23 ⁺	CD21 ⁻	CD11b ⁺	
B-NTG	110	12.3	7.4	43.8	29	10.1	5.1	41.2	13.9
	115	14.6	6.3	52.1	27.1	14.2	5.5	48.8	6.4
	90	10.2	5.2	41.2	31.8	16.1	5.2	32.1	3.2
	Mean	105	12.4	6.3	45.7	29.3	13.5	5.3	40.7
B-TG	SD	13.2	2.2	1.1	5.7	2.4	3.5	0.2	5.5
	130	12.5	7.2	39.7	37.2	11.2	7.4	48.2	10.3
	106	10.9	8.1	58.3	33.5	13.6	4.5	42	8.2
	Mean	124	12.3	8.4	42.1	28.2	15	3.8	49.4
B-TG	SD	120	11.9	7.9	46.7	32.9	13.3	5.2	8.2
	10.2	0.7	0.5	8.3	3.7	1.6	1.5	3.2	1.7

Bone marrow

	Total	Pro-B cells	Pre-B cells	Imm.	Mat.
		B220 ⁺ IgM ⁻	B220 ⁺ IgM ⁻	B220 ⁺ IgM ⁺	
		CD43 ⁺	CD43 ⁻		
B-NTG	14	3.6	10	3.8	40
	12	2.2	9	3.9	35
	10	2.8	6	2.4	34
	Mean	12	2.9	8.3	3.4
B-TG	SD	2	0.7	2.1	0.8
	15.2	2.4	12	3.7	42
	13	3	11	2.5	45
	Mean	12.1	1.2	4	2.4
B-TG	SD	13.4	2.2	9	2.9
	1.6	0.9	4.4	0.7	44.3*
	2.1				

Peritoneal cavity

	Total	Macs		B1 cells	
		CD11b ⁺	F4/80 ⁺	CD19 ⁺	CD5 ⁺
B-NTG	1.2	0.11	1		
	0.9	0.21	0.95		
	2.5	0.33	0.28		
	Mean	1.5	0.2	0.7	
B-TG	SD	0.7	0.1	0.3	
	2.1	0.22	0.17		
	1.4	0.13	0.34		
	Mean	3.2	0.48	0.12	
B-TG	SD	2.2	0.3	0.21	
	0.9	0.2	0.1		

Thymus

Thymus					
	Total	CD4 ⁺ SP	CD8 ⁺ SP	CD4 ⁺ CD8 ⁺ DP	CD4 ⁻ CD8 ⁻ DN
B-NTG	95	1.14	0.62	60	15.6
	99	1	0.44	79	4.2
	90	0.9	0.41	58	3.2
	Mean	94.7	1	0.5	65.7
B-TG	SD	4.5	0.1	11.6	6.9
	88	0.77	0.4	72	3.5
	90	1.4	0.38	80	3.8
	92	1.2	0.32	71	4.1
Mean	90	1.1	0.4	74.3	3.8
	SD	2	0.3	4.9	0.3

The total number of cells ($\times 10^6$) in whole organs and various subpopulations from individual B-TG and B-NTG mice ($n = 3$ mice per group), as assessed by FACS. The mean and SD are shown. All comparisons between B-NTG and B-TG mice were not significant by the Student's *t* test ($P > 0.05$) unless otherwise indicated (*, $P = 0.02$). DN, double-negative thymocytes; DP, double-positive thymocytes; FBC, follicular B cells; Imm., immature B cells; Macs, macrophages; Mat., mature B cells; MZB, marginal zone B cells; SP, single-positive thymocytes.

Table S2. Absolute cell numbers ($\times 10^6$ cells) of whole and different populations in the spleen, lymph nodes, and peritoneal cavity in M-TG and M-NTG mice

Spleen

	Total	T cells		B cells			Macs
		CD4 ⁺	CD8 ⁺	CD19 ⁺	CD19 ⁺	B220 ⁺	CD11b ⁺
		CD3 ⁺	CD3 ⁺	CD23 ⁺	CD23 ⁺		F4/80 ⁺
M-NTG	75	11.2	7.6	37.6	29.7	38.3	1.2
	69	8.4	5.7	37.4	31.4	38.9	2.1
	75	10.9	9.9	38.2	32.7	39	1.7
Mean	73	10.2	7.7	37.7	31.3	38.7	1.7
SD	3.5	1.5	2.1	0.4	1.5	0.3	0.5
M-TG	83	11	7.8	44.8	37.3	45.2	1.7
	88	11.6	8.4	49.4	41.2	50.9	1.7
	43	5.9	6.8	24.1	21.6	24.1	0.9
Mean	71.3	9.5	7.3	39.4	33.4	40.1	1.4
SD	24.6	3.1	0.5	11	8.5	11.5	0.3

Lymph nodes

	Total	T cells		B cells		Macs
		CD4 ⁺	CD8 ⁺	CD19 ⁺	B220 ⁺	CD11b ⁺
		CD3 ⁺	CD3 ⁺	CD23 ⁺	CD23 ⁺	F4/80 ⁺
M-NTG	4.8	1.6	1.5	0.7	0.7	0.05
	5.7	1.8	1.4	1.1	0.97	0.05
	4.5	1.4	1.2	0.8	0.99	0.048
Mean	5	1.6	1.37	0.8	0.8	0.04
SD	0.5	0.2	0.1	0.2	0.1	0.001
M-TG	4.8	1	0.93	1.3	1.3	0.046
	5.7	1.5	1.6	0.7	0.6	0.046
	11.4	2.5	2.5	2.5	2.4	0.14
Mean	7.3	1.7	1.7	1.6	0.9	0.1
SD	3.6	0.8	0.8	1.3	0.2	0.05

Peritoneal cavity

	Total	Macs	B1 cells
		CD11b ⁺	CD19 ⁺
		F4/80 ⁺	CD5 ⁺
M-NTG	2.3	0.79	0.31
	1.8	0.69	0.24
	2.8	0.94	0.52
Mean	2.3	0.8	0.4
SD	0.5	0.1	0.1
M-TG	1.7	0.53	0.16
	2.6	0.69	0.28
	2.8	0.34	0.55
Mean	2.4	0.5	0.3
SD	0.6	0.2	0.2

The total number of cells ($\times 10^6$) in whole organs and various subpopulations from individual M-TG and M-NTG mice ($n = 3$ mice per group), as assessed by FACS. The mean and SD are shown. All comparisons between M-NTG and M-TG mice were not significant by the Student's *t* test ($P > 0.05$). Macs, macrophages.

Table S3. Markers used for MRL/*lpr* backcross

Marker	Position cM
D1Mit64	1, 5
D1Mit236	1, 25.7
D1Mit308	1, 62.1
D1Mit111	1, 92.3
D1Mit406	1, 101.2
D2Mit66.1	2, 47.8
D2Mit411	2, 77.6
D2Mit148	2, 105
D4Mit193	4, 7.5
D4Mit17	4, 31.4
D4Mit308	4, 57.4
D4Mit256	4, 82.7
D5Mit352	5, 20
D5Mit356	5, 41
D5Mit314	5, 59
D5Mit95.1	5, 68
D7Mit267	7, 11
D7Mit350	7, 41
D7Mit101	7, 60
D10Mit213	10, 11
D10Mit230	10, 49
D10Mit233	10, 62
D11Mit2	11, 2.4
D11Mit285	11, 55
D11Mit333	11, 66
D12Mit60	12, 16
D12Mit158	12, 38
D12Nds2	12, 59
D15Mit6.1	15, 13.7
D15Mit242	15, 55.6
D16Mit131	16, 4.3
D16Mit189	16, 55.2
D17Mit245	17, 3
D17Mit39	17, 45.3

B-TG and M-TG C57BL/6 mice were backcrossed onto the MRL/*lpr* background for five generations using a speed congenic technique. Mice were screened by PCR of tail DNA at each generation for the transgene and 34 markers on chromosomes carrying known susceptibility, as depicted (Wakeland, E.K., K. Liu, R.R. Graham, and T.W. Behrens. 2001. *Immunity*. 15:397–408). PCR products were screened by electrophoresis and ethidium bromide visualization on 4% nusieve agarose gels. Mice were bred until all markers, as well as CD95 (fas; available at <http://www.jax.org/>) and Fc γ RIIB (Pritchard, N.R., A.J. Cutler, S. Uribe, S.J. Chadban, B.J. Morley, and K.G.C. Smith. 2000. *Curr. Biol.* 10:227–230; Lin, Q., Y. Xiu, Y. Jiang, H. Tsurui, K. Nakamura, S. Kodera, M. Ohtsuji, N. Ohtsuji, W. Shiroiwa, K. Tsukamoto, et al. 2006. *J. Immunol.* 177:1646–1654), were homozygous MRL. In addition, Fc γ RIIb, H-2, and IgM loci were confirmed as MRL derived by flow cytometry for allotypic differences.