

Supplementary figure 1. Gating strategy used to identify NK cells in mouse spleens. Single lymphocytic cells were initially identified based on their characteristic forward scatter (FSC) and side scatter (SSC) properties. ZombieTM Aqua Fixable Viability Kit was used to exclude dead cells. Cells within the CD19⁻ gate were identified to exclude lineage cells. NK cells were identified as the CD3⁻ NK1.1⁺ population, which was then divided into distinct maturation stages based on the expression of CD11b and CD27.



Supplementary figure 2. RNA sequencing (RNAseq) analysis of **(a)** *Tnfrsf13c* (BAFF-R), **(b)** *Tnfrsf13b* (TACI) and **(c)** *Tnfrsf17* (BCMA) in splenic CD27⁻CD11b⁺NK cells, naïve T cells and B cells from 6 weeks old C57BL/6J mice (n = 1-3). B cells consists of follicular (Fo) B cells, marginal zone (MZ) B cells and plasma cells. The gene expression values are derived from the Immunological Genome Project (ImmGen) database. Cell types are colour-coded: B cells (red), naïve T cells (blue) and natural killer (NK) cells (green).

Supplementary table 1. Genetically-modified mice of the BAFF sy
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Genotype	Phenotype	Genetic modification [†]	Reference		
BAFF-/-	Mice exhibit impaired	Exons 1 and 2 (732 bp) that	Schiemann, B, Gommerman, JL, Vora, K, et al. An essential role for		
	B cell survival and	include the first 134	BAFF in the normal development of B cells through a BCMA-		
	maturation.	residues of the coding	independent pathway. Science. 2001; 293: 2111-2114.		
		sequence were replaced with			
		a human CD2 reporter gene			
		fused to a neomycin-			
		resistance cassette			
DAEE D-/-	Miaa avhibit impaired	Cra racombinasa madiatad	Sacaki V Casala S Kutak I at al TNE family mombar P call		
ΔΑΓΓ- Κ	D cell survival and		sasaki, I, Casola, S, Kutok, J, <i>et al.</i> The family member B cen-		
	B cell survival and	excision of a floxed region	activating factor (BAFF) receptor-dependent and -independent roles for		
	maturation.	containing exons 3 and 4.	BAFF in B cell physiology. <i>J Immunol</i> . 2004; 173 : 2245-2252.		
		The excised region encoded			
		the entire extracellular and			
		transmembrane domains and			
		part of the cytoplasmic			
		domain of this receptor.			
TACI-/-	Mice exhibit increased	A tail-less human CD2	Von Bülow GU, Van Deursen JM, Bram RJ. Regulation of the T-		
	numbers of peripheral	reporter cDNA and PGK-	independent humoral response by TACI. Immunity 2001; 14: 573-582.		

	B cells, decreased	neo cassette replaced 6.12 kb	
	serum IgA levels, and	immediately downstream of	
	impaired responses to T	the start ATG codon. This	
	cell-independent	resulted in the insertion of	
	antigens, most notably	stop codons in all potential	
	those that are Type II.	reading frames downstream	
		of the inserted reporter.	
BCMA-/-	Mice have reduced	A region of the gene	Schiemann, B, Gommerman, JL, Vora, K, et al. An essential role for
	number of long-lived	containing the translation	BAFF in the normal development of B cells through a BCMA-
	bone marrow plasma	initiation codon and 1.3 kb of	independent pathway. Science. 2001; 293: 2111-2114.
	cells	downstream sequences were	
		replaced with a human CD2	
		reporter gene fused to a	
		neomycin resistance	
		cassette. The mutation	
		deletes the first 87 residues,	
		which includes a putative	
		transmembrane domain.	
BAFF Tg	Mice overproduce	Full-length murine Tnfsf13b	Mackay, F, Woodcock, SA, Lawton, P, Ambrose C, Baetscher M,
	BAFF and have	(BAFF) was expressed under	Schneider P. Mice transgenic for BAFF develop lymphocytic disorders
	increased numbers of	the control of the human	

peripheralBcells.liver-specificalpha-1-along with autoimmune manifestations. J Exp Med. 1999; 190: 1697-Thesemicedevelopantitrypsin promoter with an1710.symptomsofanapolipoprotein E enhancer.autoimmunedisorderfromapproximately 8weeks of age.

[†] The information included under genetic modification was extracted from the Mouse Genome Database (MGD) at the Mouse Genome Informatics website, The Jackson Laboratory, Bar Harbor, Maine. World Wide Web (URL: http://www.informatics.jax.org).

Target antigen	Fluorochrome/conjugate	Clone	Isotype	Manufacturer
BAFF-R	PE	TH22-	Rat IgG1, κ	Biolegend
		E16		
CD3	APC	145-	Armenian	Biolegend
	V450	2C11	Hamster IgG	BD
		17A2	Rat IgG2b, κ	
CD11b	FITC	M1/70	Rat IgG2b, к	BD
CD16/32 (Fc	-	2.4G2	Rat IgG2b, κ	BD
block)				
CD19	PerCP-Cy5.5	1D3	Rat IgG2a, к	BD
CD21/35	eFluor450	eBio4E3	Rat IgG2a, λ	eBioscience
CD23	PE-Cy7	B3B4	Rat IgG2a, κ	eBioscience
CD27	РЕ	LG.3A10	Armenian	BD
			Hamster IgG1,	
			κ	
CD44	APC	IM7	Rat IgG2b, к	eBioscience
CD62L	FITC	MEL14	Rat IgG2a, κ	BD
	PE	MEL14	Rat IgG2a, к	BD
CD93	APC	AA4.1	Rat IgG2b, κ	eBioscience
Granzyme B	AF647	GB11	Mouse	BD
			(BALB/c) IgG1,	
			κ	
IgM	FITC	II/41	Rat IgG2a, к	BD
NK1.1	PE-Cy7	PK136	Mouse (C3H x	BD
			BALB/c)	
			IgG2a, κ	
TACI	PE	8F10	Rat IgG2a	Biolegend
ΤCRβ	V450	H57-597	Mouse IgG2, $\lambda 1$	BD

Supplementary table 2. Antibodies used in this experiment.