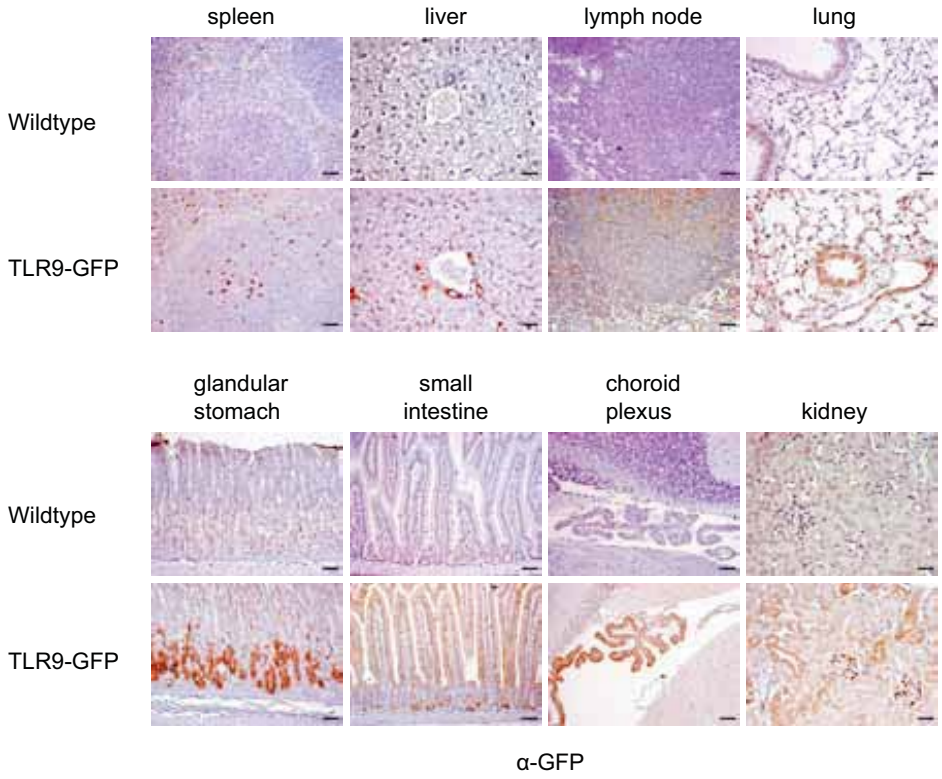
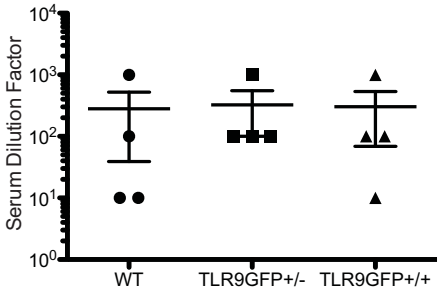
Supplementary Figure 1



Suppl. FIGURE 1. TLR9-GFP is expressed in different tissues of TLR9-GFP transgenic mice. Organs and tissue of 12-week-old mice heterozygous for transgenic TLR9-GFP (TLR9-GFP$^{-/+}$/WT) were formalin fixed, paraffin embedded and stained with an anti-GFP antibody. Data is representative of two TLR9-GFP$^{-/+}$/WT mice and two WT littermates. Scale bar = 25 µm for lung and kidney and 50 µm for all other organs.

Supplementary Figure 2

A



B

Table I

Lymphocyte populations in periphery (%)					
		WT	TLR9-GFP/WT	TLR9 KO	TLR9-GFP/KO
Spleen					
	$B220^+/CD3^+$	2.2	1.7	1.7	1.5
	$B220^+CD23^+$	72.7	79.8	76.9	72.7
	$B220^+CD21^+$	10.6	6.4	6.4	9.3
	$CD4^+$	61.2	50.8	58.7	60.0
	$CD8^+$	28.6	36.6	28.7	21.5
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B cell subsets at different developmental stages (%) [a]					
Bone Marrow					
	Pro B	13.6	20.7	16.1	23.0
	Pre B	42.5	39.2	32.5	23.8
	Immature B	40.3	36.6	47.8	51.1
Spleen					
	Immature B	15.7	16.0	13.6	10.8
	Mature B	84.2	83.9	86.3	89.1
!					
T cell subsets in thymus (%)					
Thymus					
	$CD4^+$	15.9	16.8	18.35	23.3
	$CD4^+CD8^+$	72.7	71.2	70.7	57.5
	$CD8^+$	2.5	3.1	3.1	3.7
	$CD4^-CD8^-$	1.3	2.2	1.7	4.0

[a] In bone marrow, Pro B cells were scored based on $B220^+CD43^+$ expression. Pre B cells were $CD43^-B220^+IgM^-$, and immature B cells were $CD43^-B220^+IgM^+$. In spleen, immature B cells were $B220^+CD93^+$ and mature B cells were $B220^+CD93^-$.
Values are averages of at least 3 mice except for bone marrow and thymus, with 1-2 mice per group.

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Suppl. FIGURE 2. TLR9-GFP mice do not develop antinuclear antibodies and have normal lymphocyte development. (*A*) Sera from four of each 10-12 month old WT, TLR9-GFP mice with one (+/-) or two (+/+) copies of the TLR9-GFP transgene were extracted from the mouse, and serial dilutions of sera added to slides containing Hep-2 cells. Slides were washed and incubated with FITC-conjugated anti-Ig antibody and cells visualized with a fluorescence microscope. Serum dilution factor as quantification of levels of ANA was calculated at the dilution factor at which no signal could be detected. (*B*) T and B cell subsets were determined in spleen, bone marrow and thymus based on expression of surface markers.