

DATA SUPPLEMENT

Supplementary figure legends

Figure S1. WT (●) and R26CreERT2 (▼) mice received intraperitoneal injections of tamoxifen at 75 mg/kg for 3 consecutive days from P9 to P11 (solid lines), intraperitoneal injections of vehicle (dashed lines) for 3 consecutive days from P9 to P11, or were not injected (dotted lines). Body weight was recorded from P9 to P20. Data are represented as mean $\pm$ SEM of n=5-21 animals per group. Two-way analysis of variance was used to analyze differences. * p-value $\leq$ 0.05; **** p-value $\leq$ 0.0001 vs WT non injected control group.

Figure S2. WT (●) and R26CreERT2 (▼) mice received intraperitoneal injections of tamoxifen at 75 mg/kg for 3 consecutive days from P9 to P11. **(a)** Body weight was recorded from P9 to P20 for males and females. Data are expressed as body weight or as a percentage of gain in body weight compared to the body weight at P9. Data are represented as mean $\pm$ SEM of n=7-15 mice per group. **(b)** Survival curves of n=18 WT and n=45 R26CreERT2. **(c)** Representative photograph of the intestines of WT and R26CreERT2 mice at P19. The arrow shows accumulation of gas in the intestines of R26CreERT2 mice. We used two- way analysis of variance to analyze differences in weight or weight gain and log-rank Mantel cox test to analyze survival curves. * p-value $\leq$ 0.05; ** p-value $\leq$ 0.01; *** p-value $\leq$ 0.001; **** p-value $\leq$ 0.0001.

Figure S3. WT (●) and R26CreERT2 (▼) mice received intraperitoneal injections of tamoxifen at 75 mg/kg for 3 consecutive days from P9 to P11 and were euthanized at P19. Cell suspensions obtained from the spleen were analyzed by flow cytometry. Representative dot plots (left) and quantitative analysis (right) of Ter119⁺ CD71⁺ erythroblasts, B220⁺ CD19⁺ B cell precursors, and CD11b⁺ Gr-1⁺ myeloblasts. Data are expressed as a percentage of the total live cells analyzed or as a number of cells per animal and are represented as mean $\pm$ SEM of n=6-11 animals per group. Mann-Whitney tests were used to assess statistical significance (** p-value $\leq$ 0.01; *** p-value $\leq$ 0.001; **** p-value $\leq$ 0.0001).

Figure S4. WT (●) and R26CreERT2 (▼) mice received intraperitoneal injections of tamoxifen at 75 mg/kg for 3 consecutive days from P9 to P11. At P17 they received an intraperitoneal injection of Edu and were euthanized 3 hours later. Representative confocal microscopy images of intestine, liver and lung sections. Nuclei were stained with Hoechst (blue), glycoconjugates were stained with WGA-FITC lectin (green), and proliferative cells with Edu Click-it A555 kit (red). Scale bar = 50 μ m.

Supplementary table S1: Tamoxifen-induced CreERT2 activation in pups affects several blood cellular components. Complete blood count analysis of WT and R26CreERT2 pups. RBC = Red Blood Cells, HGB = Hemoglobin, HCT = Hematocrit, MCV = Mean Corpuscular Volume, MCH = Mean Corpuscular Hemoglobin, MCHC = Mean Corpuscular Hemoglobin Concentration, RET = Reticulocytes, PLT = Platelets, PCT = Plateletcrit, WBC = White Blood Cells, NEUT = Neutrophils, LYMPH = Lymphocytes, MONO = Monocytes, EO = Eosinophils. Values are mean $\pm$ standard deviation.

	WT (Mean $\pm$ SD)	R26CreERT2 (Mean $\pm$ SD)
RBC ($10^6/\mu\text{L}$)	5.53 $\pm$ 0.23	2.55 $\pm$ 0.2
HGB (g/dL)	9.17 $\pm$ 0.45	4.23 $\pm$ 0.2
HCT (%)	30.45 $\pm$ 1.75	12.39 $\pm$ 0.93
MCV (fL)	54.85 $\pm$ 1.38	48.96 $\pm$ 1.24
MCH (pg)	16.45 $\pm$ 0.33	16.39 $\pm$ 0.74
MCHC (g/dL)	30.75 $\pm$ 0.99	33.66 $\pm$ 1.14
RET ($10^3/\mu\text{L}$)	1161.85 $\pm$ 326.05	15.07 $\pm$ 4.3
RET (%)	23.78 $\pm$ 1.48	0.59 $\pm$ 0.19
PLT ($10^3/\mu\text{L}$)	631.5 $\pm$ 138.5	657.22 $\pm$ 79.73
PCT (%)	0.5 $\pm$ 0.07	0.59 $\pm$ 0.07
WBC ($10^3/\mu\text{L}$)	1.72 $\pm$ 0.61	0.32 $\pm$ 0.12
NEUT ($10^3/\mu\text{L}$)	0.33 $\pm$ 0.13	0.09 $\pm$ 0.03
LYMPH ($10^3/\mu\text{L}$)	1.27 $\pm$ 0.53	0.16 $\pm$ 0.06
MONO ($10^3/\mu\text{L}$)	0.04 $\pm$ 0.03	0.04 $\pm$ 0.08
EO ($10^3/\mu\text{L}$)	0.08 $\pm$ 0.03	0 $\pm$ 0

Figure S1

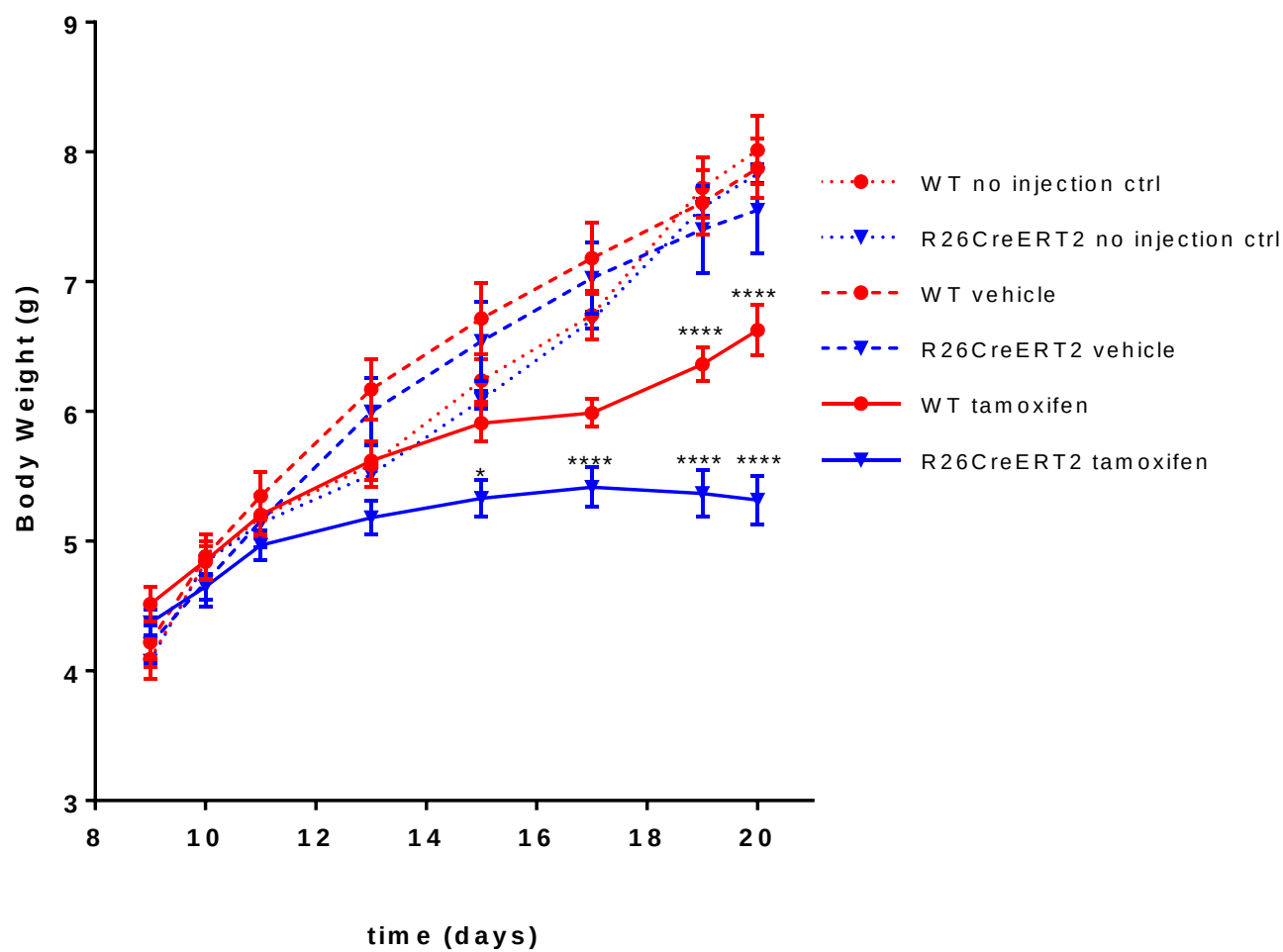
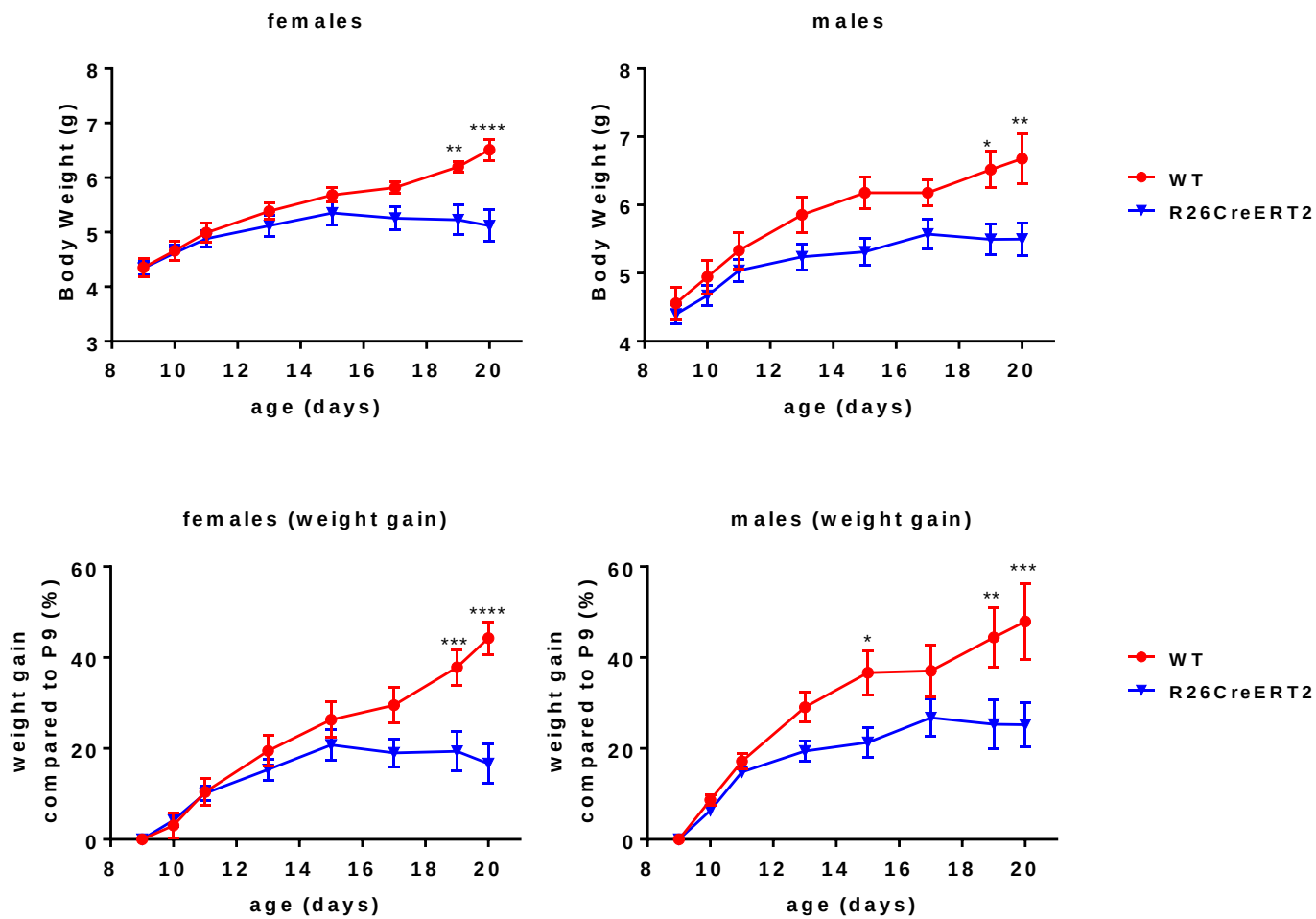
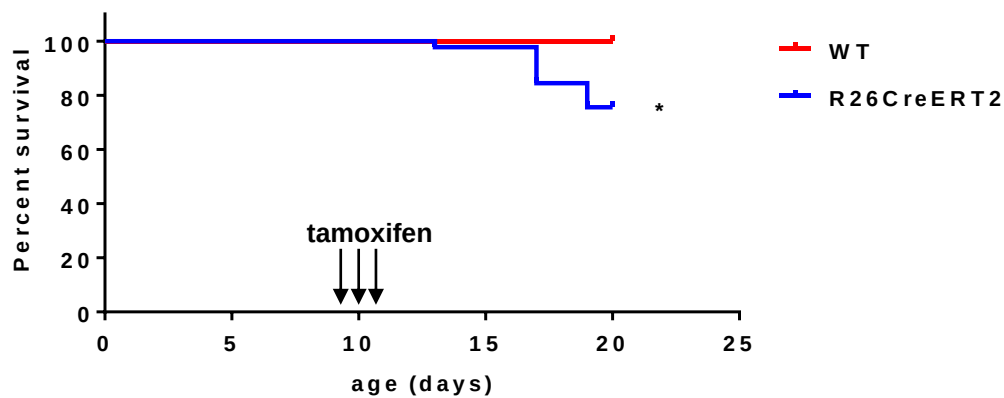


Figure S2

a



b



c

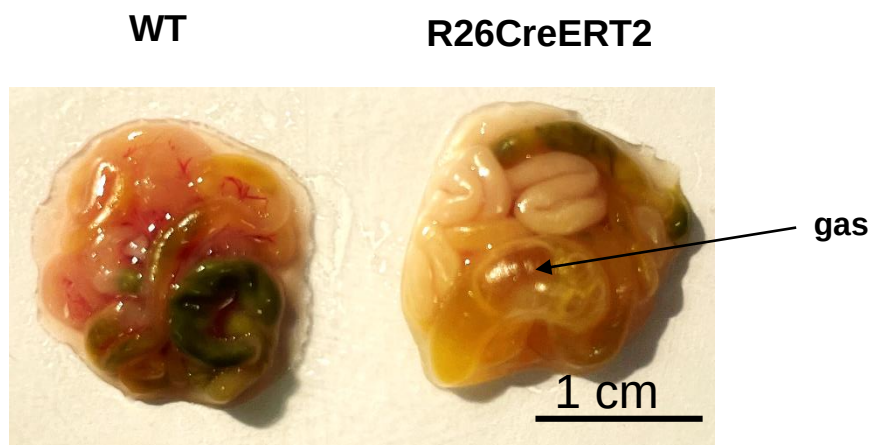
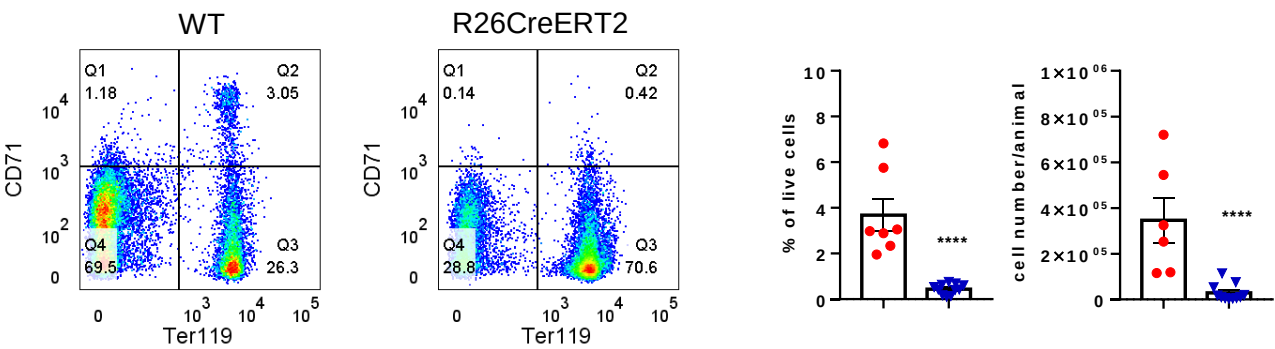
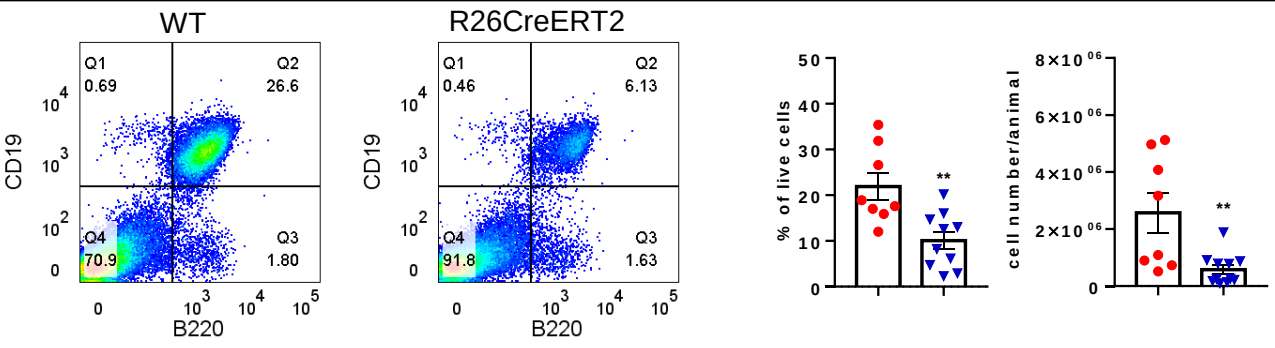


Figure S3

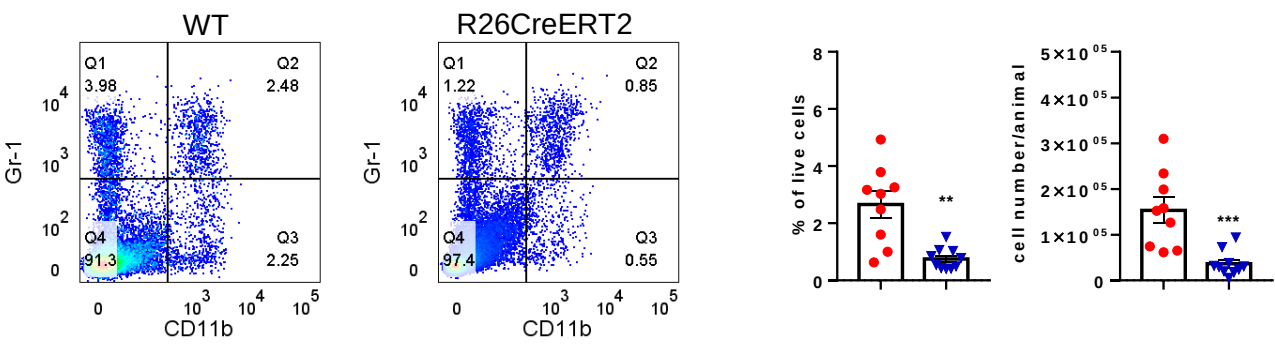
Erythroblasts Ter119⁺CD71⁺



B cells B220⁺CD19⁺



Myeloblasts CD11b⁺Gr-1⁺



● WT
▼ R26CreERT2

Figure S4

