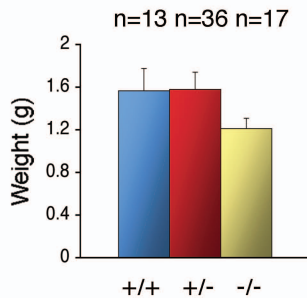
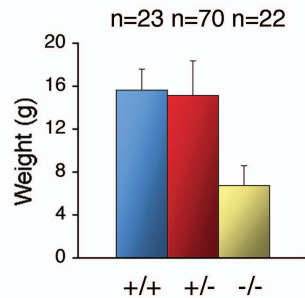
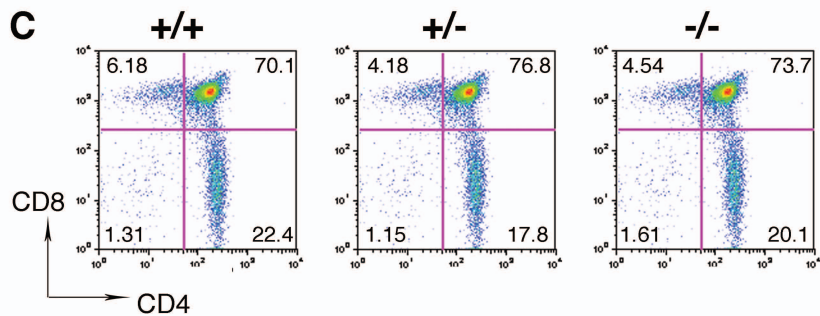
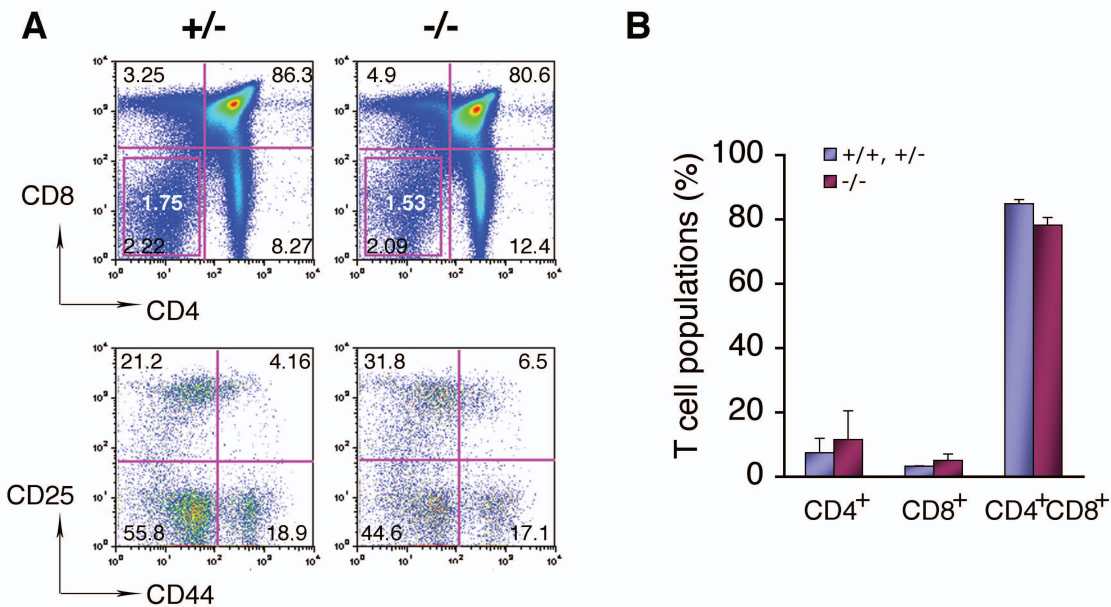


A**B****C**

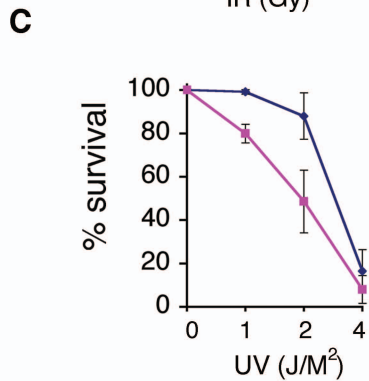
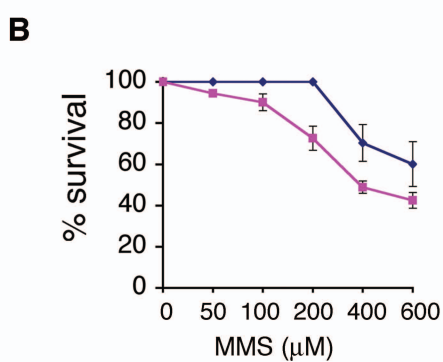
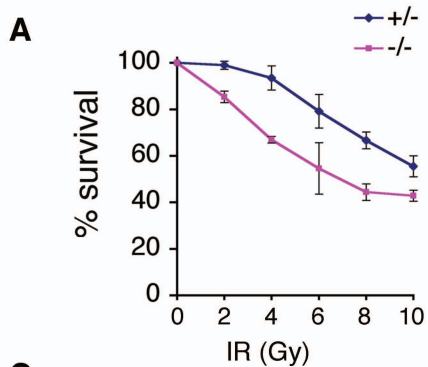


D

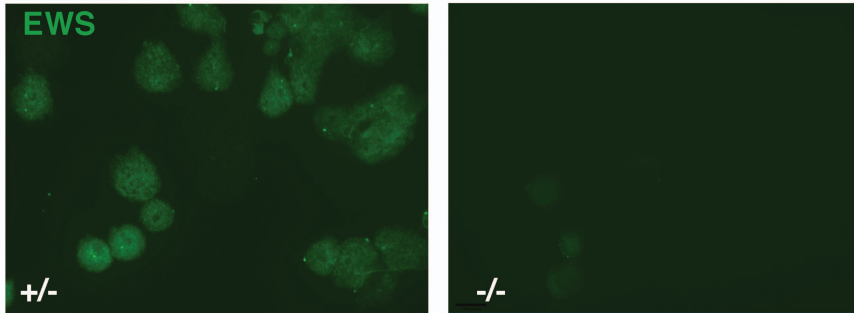
Absolute number of donor-derived T cells ($\times 10^6$)

	+/-, +/- (n=6)	-/- (n=4)
CD4 ⁺	18.09 \pm 3.44	18.32 \pm 6.19
CD8 ⁺	4.61 \pm 0.92	3.98 \pm 1.32
CD4 ⁺ CD8 ⁺	65.74 \pm 25.19	51.11 \pm 31.15

Supplement Figure 2



Supplement Figure S3



Supplement Figure S4

Supplement Figure 1. *Ews*^{-/-} mice die postnatally and show growth retardation.

(A) Photograph of postnatal day 0.5 (P0.5) wildtype and *Ews*^{-/-} littermate pups. (B) Body weight measurement of *Ews*^{+/+}, *Ews*^{+/-}, and *Ews*^{-/-} littermates at P0.5. (C) Body weight measurement of *Ews*^{+/+}, *Ews*^{+/-}, and *Ews*^{-/-} littermates at P21.

Supplement Figure 2. Analysis of T cell development in *Ews*^{-/-} mice.

(A) Thymocytes from 3-week-old *Ews*^{-/-} and littermate controls were stained for CD4, CD8, CD25 and CD44. Analysis of CD4 and CD8 is shown on the top panel. Gating on the CD4⁺CD8⁺ population, the proportion of CD25⁺CD44⁺ (DN1), CD25⁺CD44⁺ (DN2), CD25⁺CD44⁺ (DN3) and CD25⁺CD44⁺ (DN4) cells is depicted on the bottom. (B) Percentage of CD4⁺, CD8⁺ and CD4⁺CD8⁺ cells (n=3 for controls and *Ews*^{-/-}). (C-D) Fetal liver chimera analysis. (C) Donor-derived thymocytes were stained for CD4 and CD8 and analyzed by flow cytometry. Representative data are presented from four separate experiments analyzing four *Ews*^{-/-} and six control recipients. (D) Absolute number of donor-derived CD4⁺, CD8⁺ and CD4⁺CD8⁺ T cells are shown.

Supplement Figure 3. Hypersensitivity of *Ews*^{-/-} MEFs to DNA damage.

Litter-matched *Ews*^{+/+} and *Ews*^{-/-} MEFs were subjected to various doses of IR (A), UV (B) and methyl methanesulfonate (MMS) (C) as indicated, and cell viability was determined 1 week after the treatment. Results are an average of 3 independent cell lines per genotype performed in duplicate.

Supplement Figure 4. Immunofluorescent microscopy of EWS in spermatocytes.

Spermatocyte spreads of *Ews*^{+/+} and *Ews*^{-/-} spermatocytes were stained with affinity-purified antibody against EWS, followed by FITC-labeled secondary antibody.