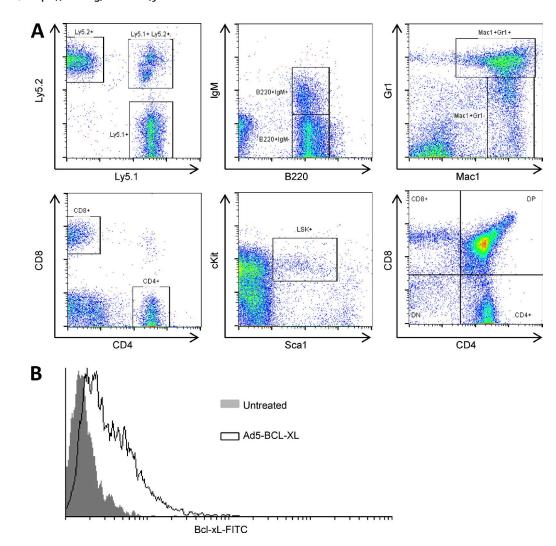
SUPPLEMENTAL MATERIAL



Kollek et al., https://doi.org/10.1084/jem.20161721

Figure S1. Gating strategy used for analysis of recipient mice. (A) Gating strategy. (B) Adenovirally overexpressed BCL-CL is measured by anti-Bcl-xL antibodies in transduced LSK cells.

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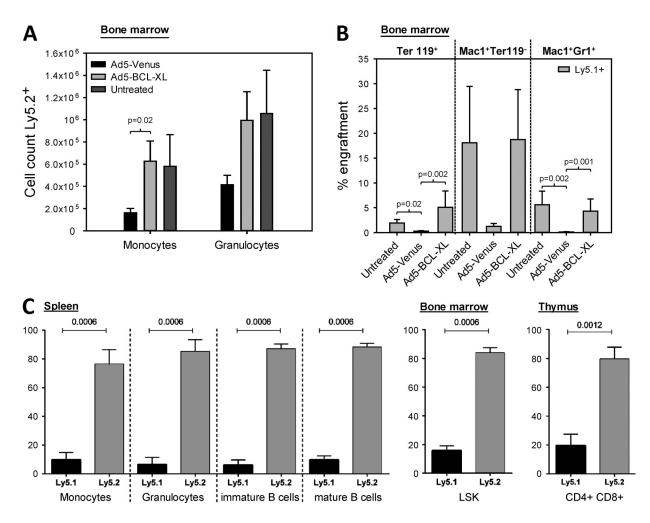


Figure S2. **Competitive reconstitution assays using LSK cells infected with adenoviruses.** (A) Ly5.1⁺/Ly5.2⁺ recipient mice were competitively transplanted with Ad5-Venus-treated Ly5.1⁺ and Ad5-Venus-treated, Ad5-BCL-XL-treated or untreated Ly5.2⁺ LSK cells in a 1:1 ratio. The experimental scheme is depicted in Fig. 2 A. 10 d after transplantation, recipient mice were sacrificed, and cell numbers of Ly5.2⁺ monocytes and granulocytes within the BM were determined based on organ cellularity and flow cytometry. Bars represent means of n = 6-8 animals of two independent experiments \pm SEM (Mann-Whitney test). (B) Ly5.2⁺ LSK cells were transduced with Ad5-Venus adenoviruses, whereas Ly5.1⁺ LSK cells were transduced as indicated (untreated, Ad5-Venus, Ad5-BCL-XL). Ly5.1⁺ and Ly5.2⁺ LSK cells were transplanted in a 1:1 ratio into lethally irradiated Ly5.2⁺ *rag1^{-/-}* mice. 10 d later, recipient mice were sacrificed, and the percentage of Ly5.1⁺ cells were determined within the BM by flow cytometry. Bars represent means of n = 7-8 animals of two independent experiments \pm SEM. P-values were calculated using the Mann-Whitney test. (C) Ly5.1⁺/Ly5.2⁺ recipient mice were competitively transplanted with untreated Ly5.1⁺ and BCL-XL-treated Ly5.2⁺ LSK cells in a 1:1 ratio. 16 wk after transplantation, recipient mice were sacrificed, and Ly5.1⁺ and Ly5.2⁺ chimerism was determined in the indicated organs and cell types. Bars represent means of n = 7 animals of two independent experiments \pm SEM (Mann-Whitney test).

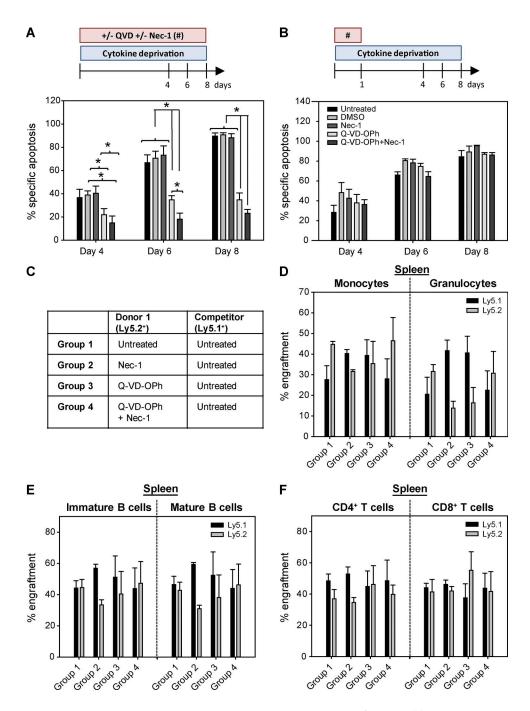
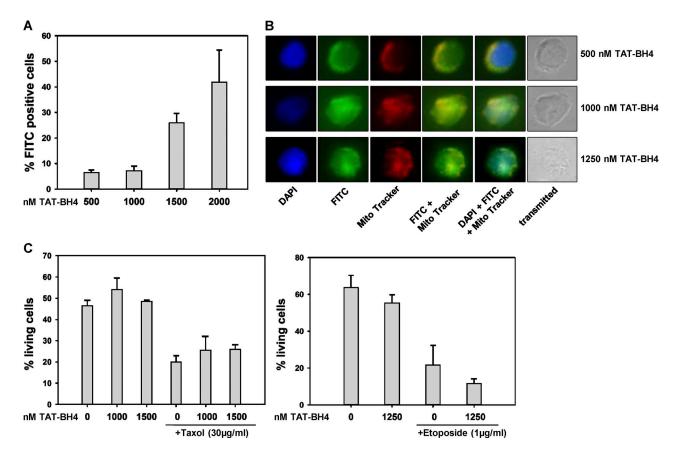
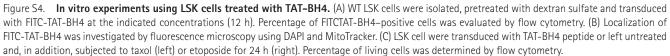


Figure S3. In vitro and in vivo experiments using LSK cells treated with Q-VD-OPh and/or Nec1. (A) LSK cells were treated with or without Q-VD-OPh and/or Nec-1 (#) and subjected to cytokine withdrawal. Specific apoptosis was determined by Annexin V/7-AAD staining at the indicated time points (n = 4; Mann-Whitney test). The legend is shown in B. (B) In a similar experimental setup, LSK cells were only treated for 24 h with Q-VD-OPh and/or Nec-1 (#) but permanently subjected to cytokine withdrawal (n = 4; Mann-Whitney test). (C) Ly5.2⁺ LSK cells were pretreated with Q-VD-OPh and/or Nec-1 (#) but permanently subjected to cytokine withdrawal (n = 4; Mann-Whitney test). (C) Ly5.2⁺ LSK cells were pretreated with Q-VD-OPh and/or Nec-1 (#) but permanently subjected to cytokine withdrawal (n = 4; Mann-Whitney test). (C) Ly5.2⁺ LSK cells were pretreated with Q-VD-OPh and/or Nec-1 (#) but permanently subjected to cytokine withdrawal (n = 4; Mann-Whitney test). (C) Ly5.2⁺ LSK cells were pretreated with Q-VD-OPh and/or Nec-1 for 24 h and transplanted together with untreated Ly5.1⁺ LSK cells (1:1 ratio) into irradiated Ly5.1/Ly5.2 heterozygous mice. (D–F) 16 wk later, recipient mice were sacrificed, and donor chimerism was determined within the indicated cell populations by flow cytometry. Bars represent means of n = 2-3 per group of one experiment \pm SEM. *, P \leq 0.05.

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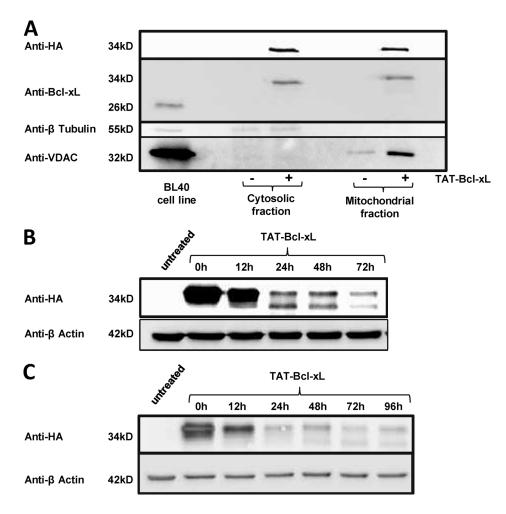


Figure S5. **Localization and degradation of the TAT–BCL–XL protein in HeLa cells.** (A) HeLa cells were transduced with TAT–Bcl–xL protein.24 h later, mitochondrial and cytosolic fractions were separated via SDS-PAGE, and TAT–Bcl–xL protein contents were detected using anti–Bcl–xL and anti-HA antibodies. BL40 cell line cells were used as a positive control. As a loading control, anti– β -Tubulin and anti-VDAC antibodies were used. (B) HeLa cells were transduced with TAT–Bcl–xL protein and treated with Q-VD-OPh (50 μ M) and cycloheximide (100 μ g/ml). At the indicated time points, protein lysates were generated. An anti-HA antibody was used for detection of TAT–Bcl–xL in order to avoid interference with endogenous Bcl–xL protein. (C) HeLa cells treated as in B were additionally treated with the proteasomal inhibitor MG132 (10 μ M).