SUPPLEMENTAL MATERIAL

Chen et al., http://www.jem.org/cgi/content/full/jem.20101192/DC1

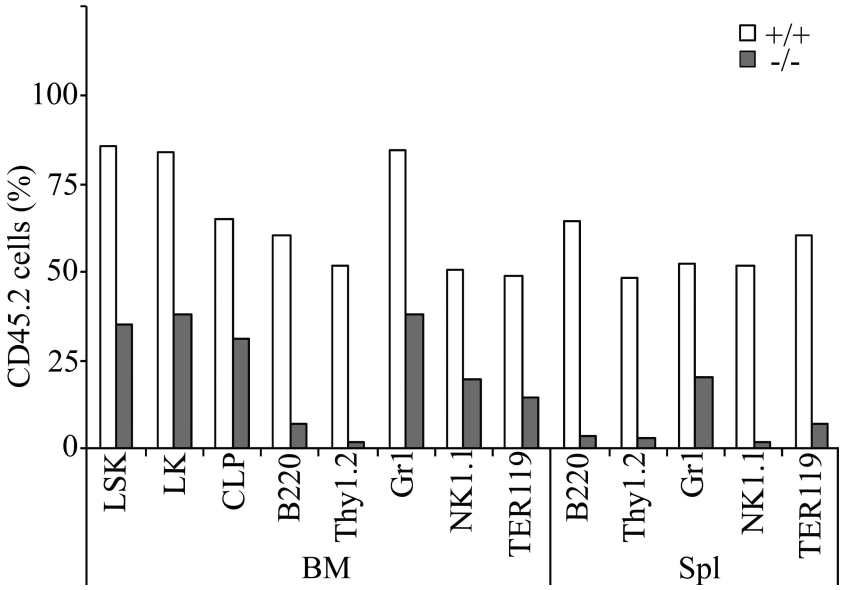

Figure S1. Impaired engrafting capacity of Gimap5-deficient hematopoietic progenitors. BM cells from wild-type (CD45.2$^+$) or Gimap5-deficient (CD45.2$^+$) mice were mixed 1:1 with wild-type competitor BM cells from B6 SJL mice (CD45.1$^+$) and transplanted into lethally irradiated B6 SJL mice. 16 wk after BM transplantation, the recipient mice were analyzed for the relative contribution of donor engraftment. Data shown are representative of three recipients per donor group.

The Journal of Experimental Medicine

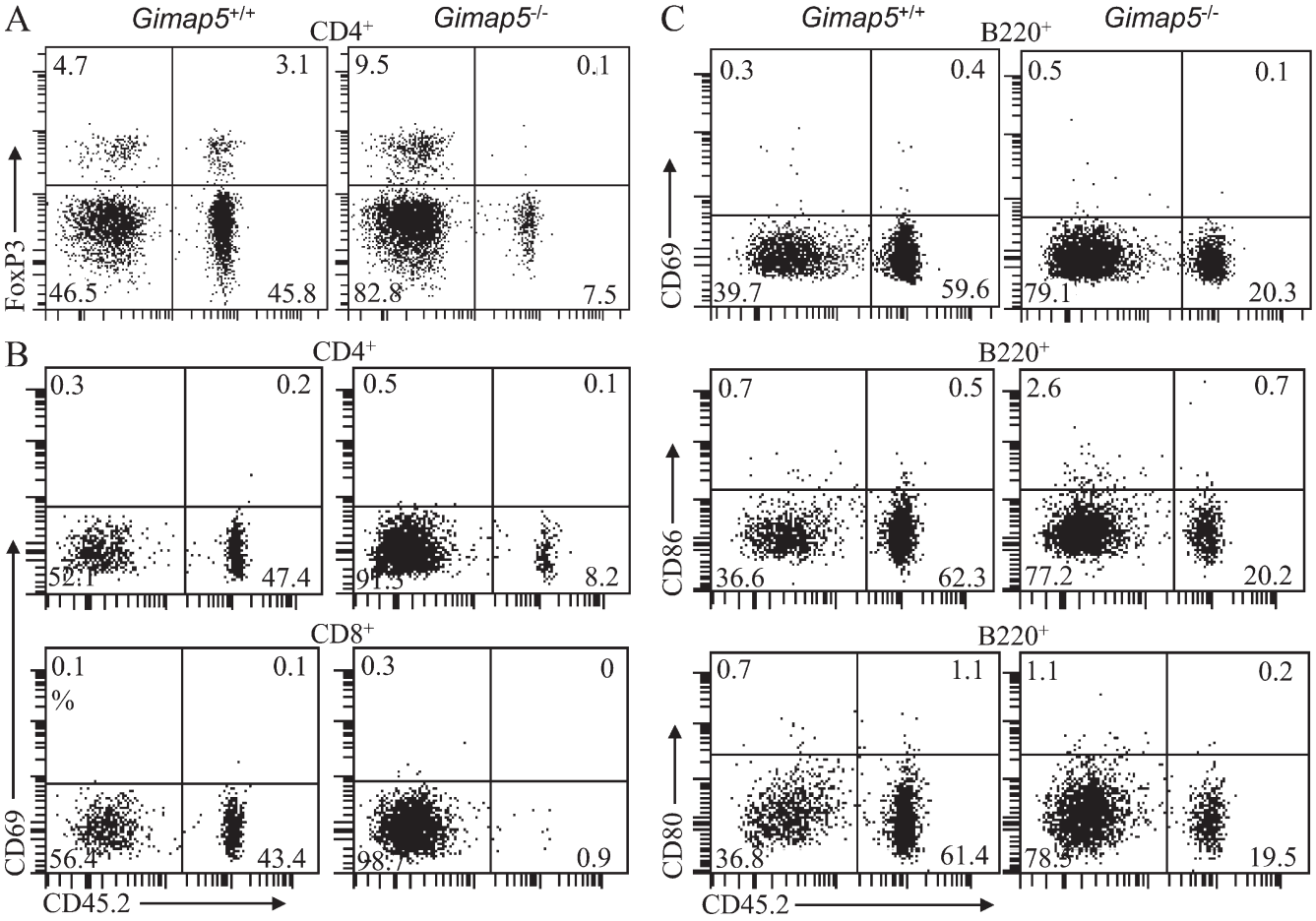

Figure S2. T reg cell population and lymphocyte activation status in competitively reconstituted recipients. BM cells from wild-type (CD45.2$^+$) or Gimap5-deficient (CD45.2$^+$) mice were mixed 1:1 with wild-type competitor BM cells from B6 SJL mice (CD45.1$^+$) and transplanted into lethally irradiated B6 SJL mice. 8 wk after BM transplantation, the recipient mice were analyzed for the expression of FoxP3, CD69, CD86, and CD80 within lymphocytes of both CD45.1 and CD45.2 origin. (A) T reg cell population in competitively reconstituted recipients. Splenocytes from the recipient mice were analyzed for the expression of FoxP3 within CD4$^+$ T cells of CD45.1 and CD45.2 origin. (B) T cell activation status in competitively reconstituted recipients. Splenocytes from the recipient mice were analyzed for the expression of CD69 within CD4$^+$ or CD8$^+$ T cells of CD45.1 and CD45.2 origin. (C) B cell activation status in competitively reconstituted recipients. Splenocytes from the recipient mice were analyzed for the expression of CD69, CD86, and CD80 within B220$^+$ B cells of CD45.1 and CD45.2 origin. The percentages indicate cells within CD4$^+$, CD8$^+$, or B220$^+$ cells. Data shown are representative of two recipients per donor group.

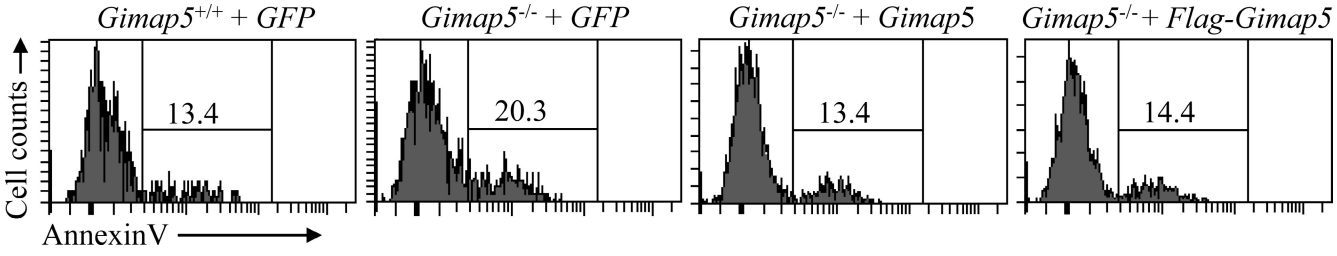

Figure S3. Rescue of Gimap5-deficient hematopoietic progenitors from cytokine withdrawal–induced apoptosis by the expression of wild-type or Flag-tagged Gimap5. IL-3 + IL-6 + SCF BM culture–derived wild-type hematopoietic progenitors were transduced with retroviruses encoding GFP alone (Gimap5$^{+/+}$ + GFP) or IL-3 + IL-6 + SCF BM culture–derived Gimap5-deficient hematopoietic progenitors were transduced with retroviruses encoding GFP alone (Gimap5$^{-/-}$ + GFP), wild-type Gimap5 and GFP (Gimap5$^{-/-}$ + Gimap5), or Flag-tagged Gimap5 and GFP (Gimap5$^{-/-}$ + Flag-tagged Gimap5). After the withdrawal of cytokines for 40 h, the cells were stained with anti-CD34 and Annexin V. The percentages indicate Annexin V$^+$ cells within GFP$^+$CD34$^+$ hematopoietic progenitors. Data shown are representative of two independent experiments.