

Supporting Information

Monticelli et al. 10.1073/pnas.0908249106

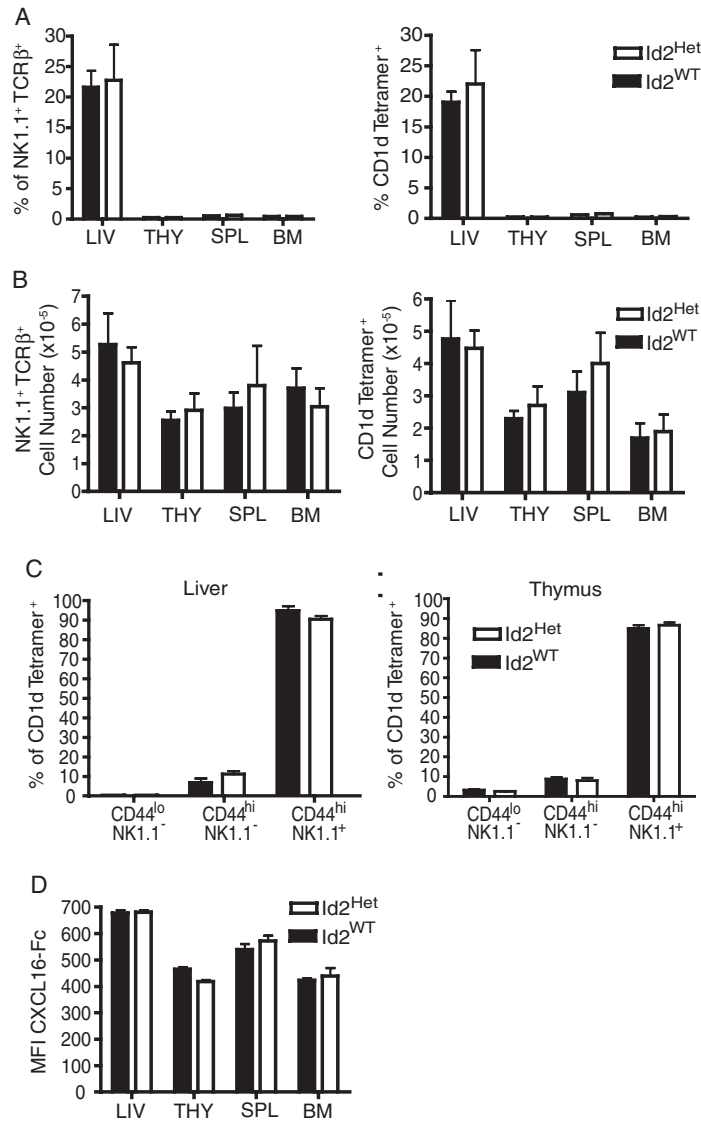


Fig. S1. Id2^{+/+} and Id2^{+/-} mice generate equivalent NKT cell populations. (A) Percentage of NK1.1⁺TCRβ⁺ and CD1d tetramer⁺ NKT cells in the liver, thymus, spleen, and bone marrow of 6-week-old Id2^{+/+} and Id2^{+/-} mice. (B) Absolute cell numbers of NK1.1⁺ TCRβ⁺ or CD1d tetramer⁺ NKT cells for indicated tissues. (C) Percentage of αGalCer-loaded CD1d tetramer⁺ NKT cells for indicated developmental subsets. Hepatic and thymic NKT cells were gated on expression of TCRβ and αGalCer-loaded CD1d tetramer, then examined for expression of NK1.1 and CD44. (D) Mean fluorescence of CXCL16-Fc binding to NK1.1⁺ TCRβ⁺ NKT cells in the liver, thymus, spleen, and bone marrow. All data shown are the average (± SEM), n = 3 Id2^{WT} and 3 Id2^{+/-}, *P < 0.05, **P < 0.005, ***P < 0.0005. Statistical significance determined using unpaired two-tailed t-test.

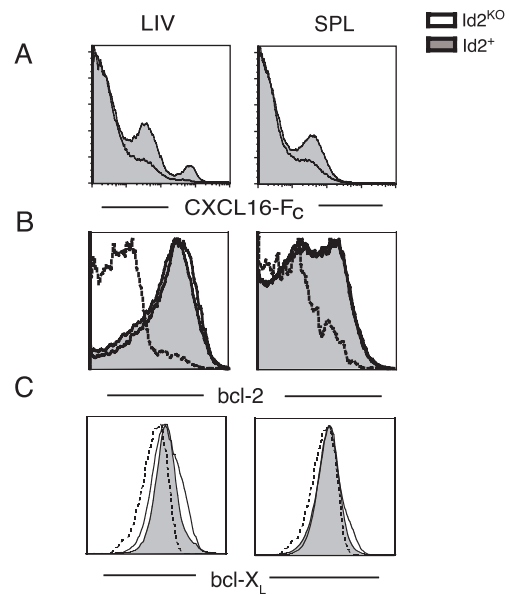


Fig. S3. Expression of CXCR6, bcl-2 and bcl-X_L by conventional Id^{KO} and Id^{WT} T cells. Expression of (A) CXCR6, (B) bcl-2, and (C) bcl-X_L determined by flow cytometry. Conventional T cells from samples shown in Fig. 5 were identified by expression of congenic marker and were NK1.1⁻TCRβ⁺. Isotype controls dashed lines; Id^{KO} unfilled; Id⁺ shaded. Flow cytometry data are representative of at least four pairs of Id^{KO} and Id⁺ chimeras.

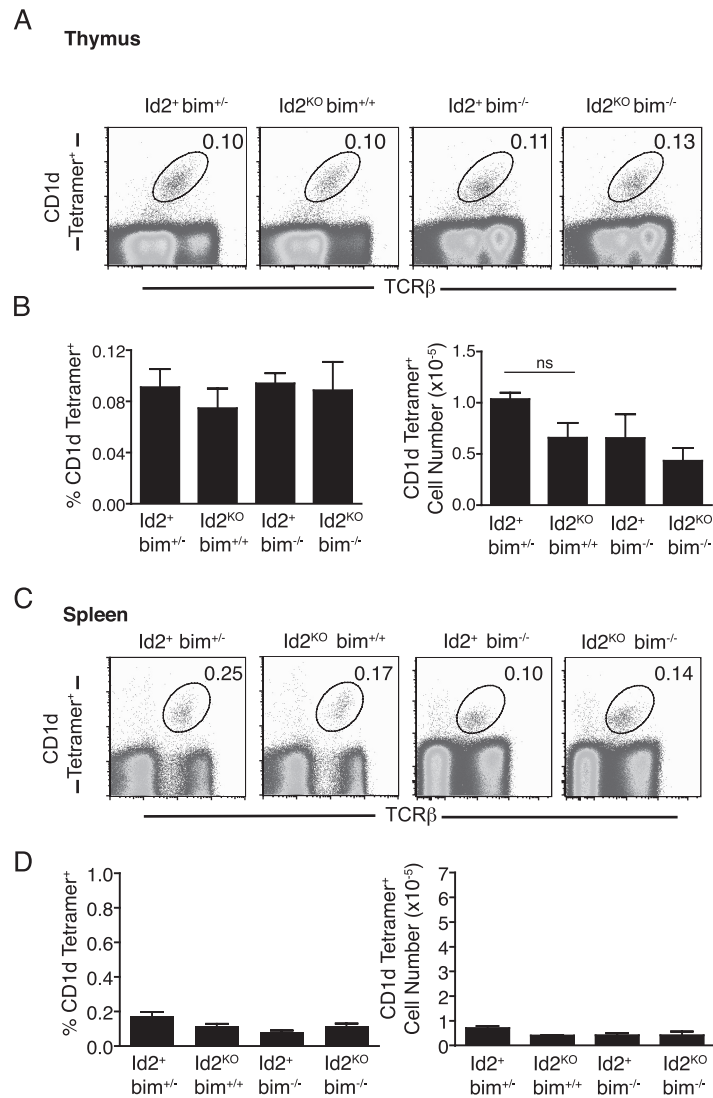


Fig. S5. Analysis of NKT cell populations in thymus and spleen of chimeras reconstituted with Id2^{WT} or Id2^{KO} bim-deficient donor cells. Analysis of lymphocytes recovered from Id2⁺bim^{+/+}, Id2^{KO}bim^{+/+}, Id2⁺bim^{-/-}, or Id2^{KO} bim^{-/-} fetal liver chimeras. (A) Representative flow cytometry plots identifying NKT cells by TCR β and CD1d tetramer staining of thymus. (B) Average percentage (\pm SEM) of indicated populations from (A). (C) Representative flow cytometry plots identifying NKT cells by TCR β and CD1d tetramer staining of spleen. (D) Average percentage (\pm SEM) of indicated populations from (C). Data are representative of three independent experiments with $n = 3-5$ per group. Statistical significance determined using unpaired two-tailed t -test where $ns > 0.05$.