

Supplementary Figure 4. Severely impaired early B cell development and late maturation in PLCγ1+/-PLCγ2-/- mice are B-cell autonomous. Bone marrow from mice of the indicated genotypes were transplanted into sub-lethally irradiated JAK3-deficient (JAK3-/-) mice. Eight weeks after transplantation, bone marrow cells from recipient mice were stained with a combination of antibodies to B200, CD43, and IgM or CD19 and CD2 (A-C), whereas splenocytes from recipient mice were stained with a combination of antibodies to B220, IgM, and IgD (D-E). (A) FACS analysis with CD43 and IgM staining of B220⁺ gated bone marrow cells. Percentages indicate cells in the gated lymphoid populations. (B) FACS analysis with B220 and CD43 staining of bone marrow cells. Percentages indicate cells in B220⁺ gated cells. (C) FACS analysis with CD19 and CD2 staining bone marrow cells. Percentages indicate cells in CD19⁺ gated cells. (**D**) Further reduction of total B cells in the spleens of JAK3-/- recipients that received PLCy1+/-PLCy2-/relative to PLCγ2-/- bone marrows. Histograms show the percentage of B220+ cells within the lymphoid cell gate. (E) FACS analysis with IgM and IgD staining of B220+ gated splenocytes. The percentages of cells in gated lymphoid population are indicated. The data shown are representative of 4 mice in each type of transplantation.