## Supplementary Figure Legend

## Supplementary Figure S1.

Age-related changes in the percent of MZ-P B cells and IFN $\alpha$  levels in BXD2 mice. Single cell suspensions were prepared from the spleens of BXD2 mice at the indicated age.  $\textbf{\textit{A}}$ , Flow cytometry analysis of the percent of MZ-P B cells in the indicated mouse strain. Means  $\pm$  SEM (n=4-6 per age group); \* P < 0.05 compared with 1-, 3-, and 8-mo-old BXD2 mice.  $\textbf{\textit{B}}$ , CpG was intravenously injected into BXD2 mice in the indicated age groups and whose serum levels of IFN $\alpha$  was measured 4 hours later. Means  $\pm$  SEM (n=6 per age group); \* P < 0.05 compared with 1-, 3-, and 8-mo-old BXD2 mice.  $\textbf{\textit{C}}$ , Quantitative bar graph shows the percentages of pDCs that are CD80 and CD86-positive in each age group for BXD2 mice. Negative isotype controls were employed to determine the cut-off for percentage of cells that are positive for either CD80 or CD86. Means  $\pm$  SEM (n=4-6 per age group); \* P < 0.05 compared with 1- and 3-mo-old BXD2 mice.

## **Supplementary Figure S2.**

MZ-P B cells from BXD2 mice exhibited highest proliferation.  $\it A, B$ , Single-cell suspensions prepared from the spleens of 8 to 12-wk-old mice were sorted into FO, MZ, and MZ-P B cells based on the expression of CD21/35, CD23, IgM, and IgD. Sorted cells were cultured in triplicate wells (5 x  $10^5$  cells/well). Stimulators included ( $\it A$ ) 10 µg/ml anti-CD40 (HM40-3; Biolegend) plus 4 µg/ml rabbit-anti-mouse Ig (clone 187.1, BD-PharMingen), and ( $\it B$ ) 10 µg/ml goat anti-mouse IgM (F(ab')2 (Jackson ImmunoResearch Laboratories, West Grove, PA). The proliferative response was measured by a standard [ $^3$ H]-thymidine incorporation assay at the 72 h time point. Cells were collected 12 h later. For each experimental group of two independent experiments, cells of the same B cell subset from at least three mice were pooled.  $\it C$ , QRT-PCR analysis of  $\it Cdca3$ ,  $\it Cdca5$ , and  $\it Cdca8$  transcripts in FACS sorted FO, MZ and MZ-P B cells from the spleens of the indicated strain of mice. Means  $\pm$  SEM; \*  $\it P$  < 0.05, \*\*  $\it P$  < 0.01, \*\*\*  $\it P$  < 0.005, compared with MZ-P B cell population isolated from BXD2 mice (n=4 per group).