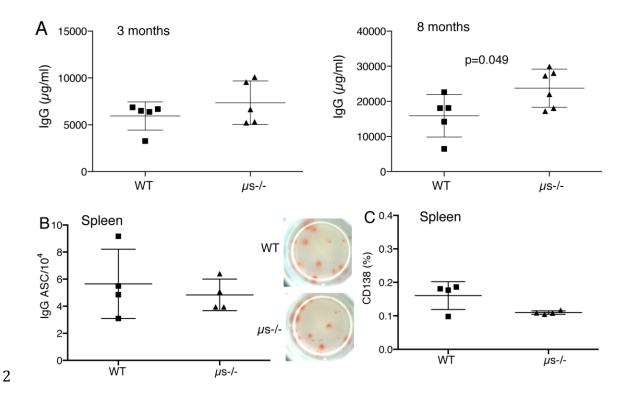
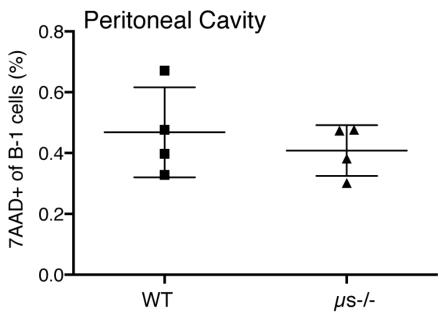
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7	Supplemental Information
8	Natural IgM prevents autoimmunity by enforcing B cell central tolerance induction
9	Trang T.T. Nguyen, Rebecca A. Elsner and Nicole Baumgarth
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1 Supplemental Figure 1

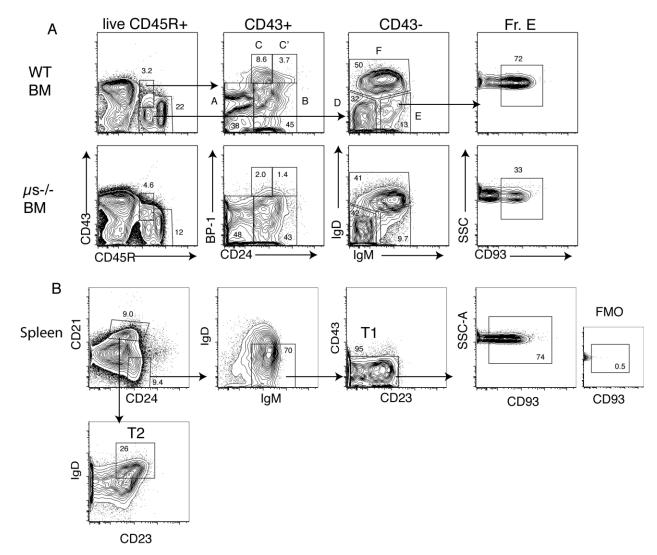


Supplemental Figure 1. μ s-/- mice have normal IgG levels. (A) Frequencies \pm SD serum levels total IgG in WT and μ s-/- mice at 3 and 8 months of life, as measured by ELISA. Serum levels were similar at 3 months. By 8 months the μ s-/- mice showed subtle but statistically-significant increases in total serum IgG concentrations (B) Frequencies \pm SD IgG antibody secreting cells (ASC) in WT and μ s-/- spleens at 3 months of age, as measured by ELISPOT. Images to the right depict representative wells (C) Frequencies \pm SD plasma cells (CD138+) in WT and μ s-/- spleens at 3 months of age as measured by flow cytometry after gating on live CD19+ lymphocytes. Each symbol represents values for a single mouse; horizontal line indicates the mean for each group (n = 4 - 6 per group)



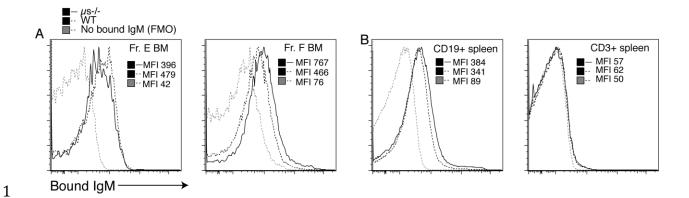
Supplemental Figure 2. Cell death among peritoneal cavity B-1 cells. Shown are mean frequencies ± SD of dead/dying cells among B-1 cells in peritoneal cavities of wildtype (WT) and sIgM-deficient (μs-/-) mice, as determined by flow cytometry staining dead/dying cells with 7-AAD staining and B-1 cells were identified by gating on IgM^{hi} IgD^{lo} CD23- CD43+ (n=4 per group). Each symbol represents values for a single mouse; horizontal line indicates the mean for the group. No significant differences were noted between the groups.

Supplemental Figure 3



Supplemental Figure 3. Gating Strategy to identify B cell precusors in bone marrow and spleen. (A) Shown are representative 5% contour plots with outliers of bone marrow samples, identifying B cell precursors according to Hardy: A, pre-pro; B, pro C; late pro; C' early pre; D late pre; E, immature; F, mature B cells. (B) Shown are representative 5% contour plots with

outliers of spleen samples, identifying transitional B cells.



Supplemental Figure 4. Secreted IgM binds to bone marrow and spleen cells in vitro. (A)

4 Shown are overlay histograms of cells from μs-/- (dark grey stippled line) and wildtype (solid

5 line) mice before (light grey line) and after incubation of cells with purified IgM for 1h in vitro.

(A) Bone marrow Hardy Fraction E and Fraction F B cells from WT and µs-/- mice and (B)

spleen B cells (CD19+) and T cells (CD3+). Data are representative of two independent

8 experiments. MFI, mean fluorescent intensity.

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