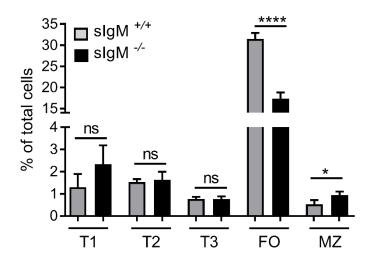
## Secreted IgM deficiency leads to increased BCR signaling that results in abnormal splenic B cell development

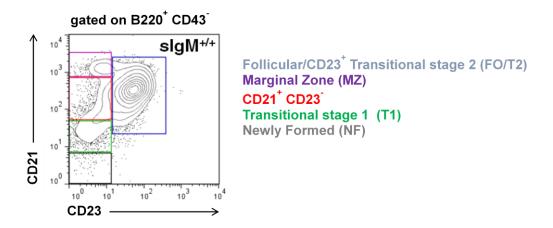
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## **Supplementary Materials**

Figure S1



**Figure S1. Secreted IgM deficiency results in altered splenic mature B cell development.** Bar graph shows T1 (B220+IgM+CD93+CD21-lowCD23-), T2 (B220+IgMhighCD93+CD21+CD23+), T3 (B220+IgM+CD93+CD21+CD23+), FO (B220+IgM+CD93-CD21+CD23+) and MZ (B220+IgM+CD93-CD21-lowCD23-) B cells of *slgM+/+* (grey bars) and *slgM-/-* (black bars) mice (n=4 mice per group). Data are shown as mean ± SEM and are representative of two independent experiments. (unpaired t test; \* P<0.05, \*\*\*\* P<0.0001).



Figures S2. Flow cytometry gating strategy of splenic B cells.

Splenic B cell subsets: follicular and CD23<sup>+</sup> transitional stage 2 B cells (FO/T2; blue) are defined as B220<sup>+</sup>CD21<sup>+</sup>CD23<sup>+</sup>CD43<sup>-</sup>, marginal zone (MZ; purple) B cells as B220<sup>+</sup>CD21<sup>high</sup>CD23<sup>-</sup>CD43<sup>-</sup>, CD21<sup>+</sup>CD23<sup>-</sup> B cells as B220<sup>+</sup>CD21<sup>+</sup>CD23<sup>-</sup> CD43<sup>-</sup> (red), transitional stage 1 (T1; green) B cells as B220<sup>+</sup>CD21<sup>low</sup>CD23<sup>-</sup>CD43<sup>-</sup> and newly formed (NF; grey) B cells as B220<sup>+</sup>CD21<sup>-</sup>CD23<sup>-</sup>CD43<sup>-</sup>. To assess only FO B cells, CD21<sup>high</sup>CD23<sup>+</sup> B cells were excluded from the gate (not shown).