



Supplementary Figure 5: Neither *Sle1b* nor *ERα* impacts B cell activation in males

(A) Dot plots show the percentage of splenocytes in male B6.*ERα*^{+/+} (N=32), B6.*ERα*^{-/-} (N=10), B6.*Sle1b.ERα*^{+/+} (N=32), and B6.*Sle1b.ERα*^{-/-} (N=11) mice that were B220⁺CD86⁺ activated B cells. (B) Representative contour plots from show the frequency of B220⁺CD86⁺ B cells in male B6.*ERα*^{+/+}, B6.*ERα*^{-/-}, B6.*Sle1b.ERα*^{+/+}, and B6.*Sle1b.ERα*^{-/-} mice. (C) Dot plots show CD22

surface expression measured as mean fluorescence intensity (MFI) in B220⁺CD22⁺ B cells in male B6.*ERα*^{+/+} (N=27), B6.*ERα*^{-/-} (N=5) B6.*Sle1b.ERα*^{+/+} (N=25), and B6.*Sle1b.ERα*^{-/-} (N=8) mice is shown. Splenocytes were collected from mice that were 5-6 months of age. The longer horizontal bar in each panel denotes the mean for each group, and the shorter black bars indicate the standard error of the mean. The * indicates $p \leq 0.05$, and the ** indicates $p \leq 0.01$.