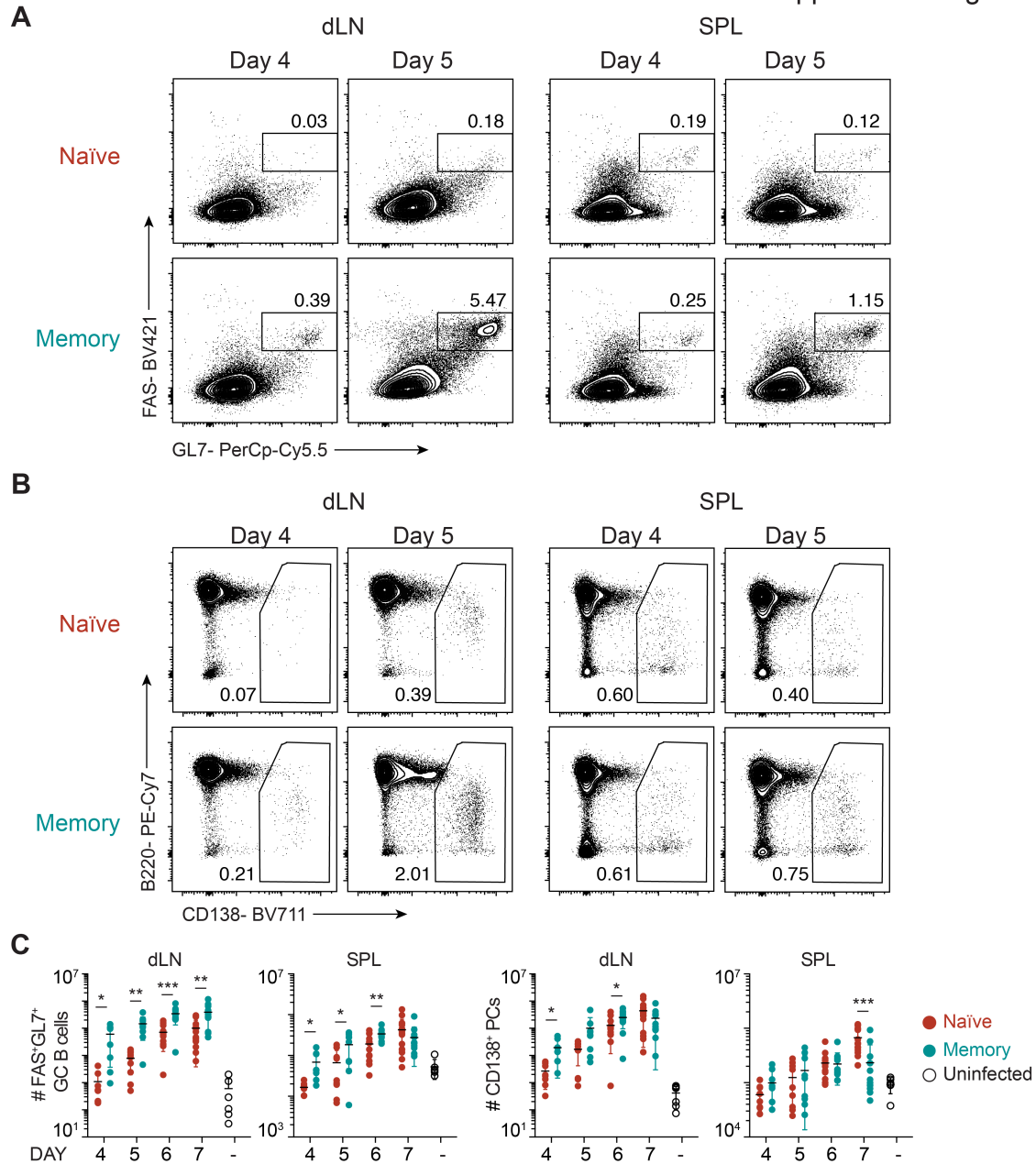


SUPPLEMENTAL FIGURES

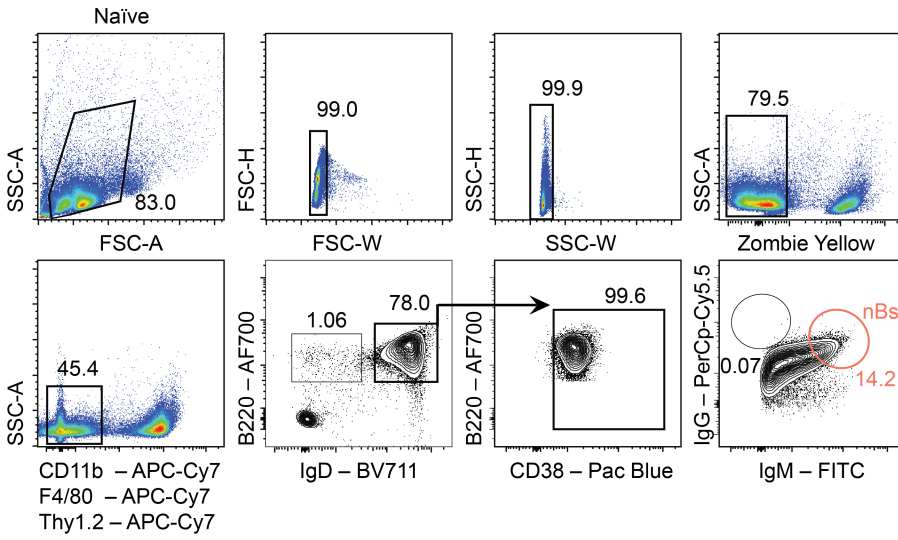
Supplemental Figure 1



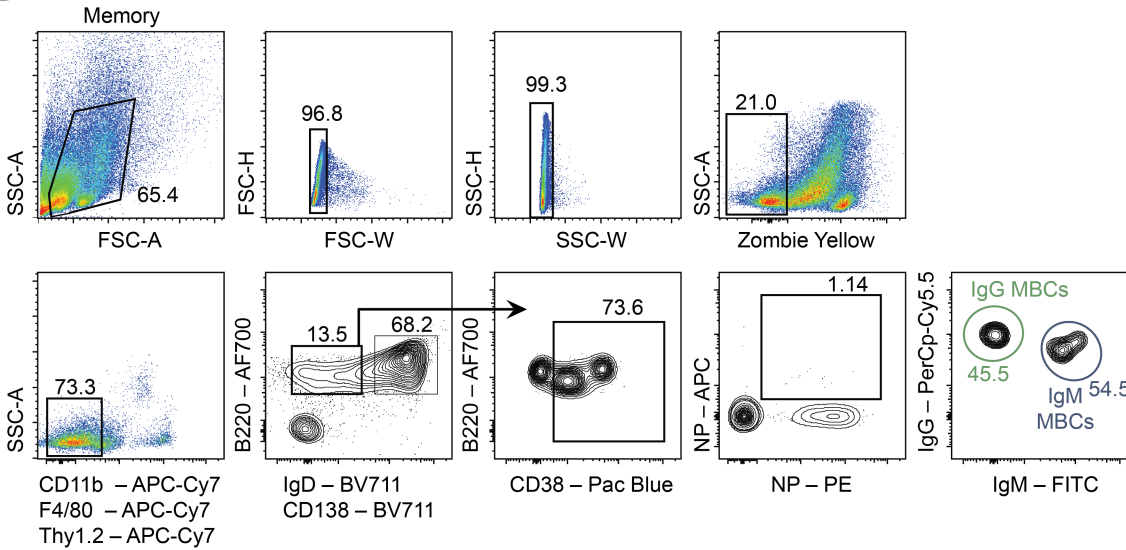
Supplemental Figure 1. B cell differentiation kinetics of naïve and memory mice.

Representative flow cytometry showing the percentage of **(A)** FAS⁺GL7⁺ germinal center (GC) B cells and **(B)** CD138⁺ PCs for the dLN (left) and spleen (SPL, right) for the indicated day in naïve or memory mice. **(C)** Quantitation of the absolute number of GC B cells and PCs from **A** for the indicated day. Significance determined by two-tailed Student's *t*-test. Data related to **Fig. 1**.

A

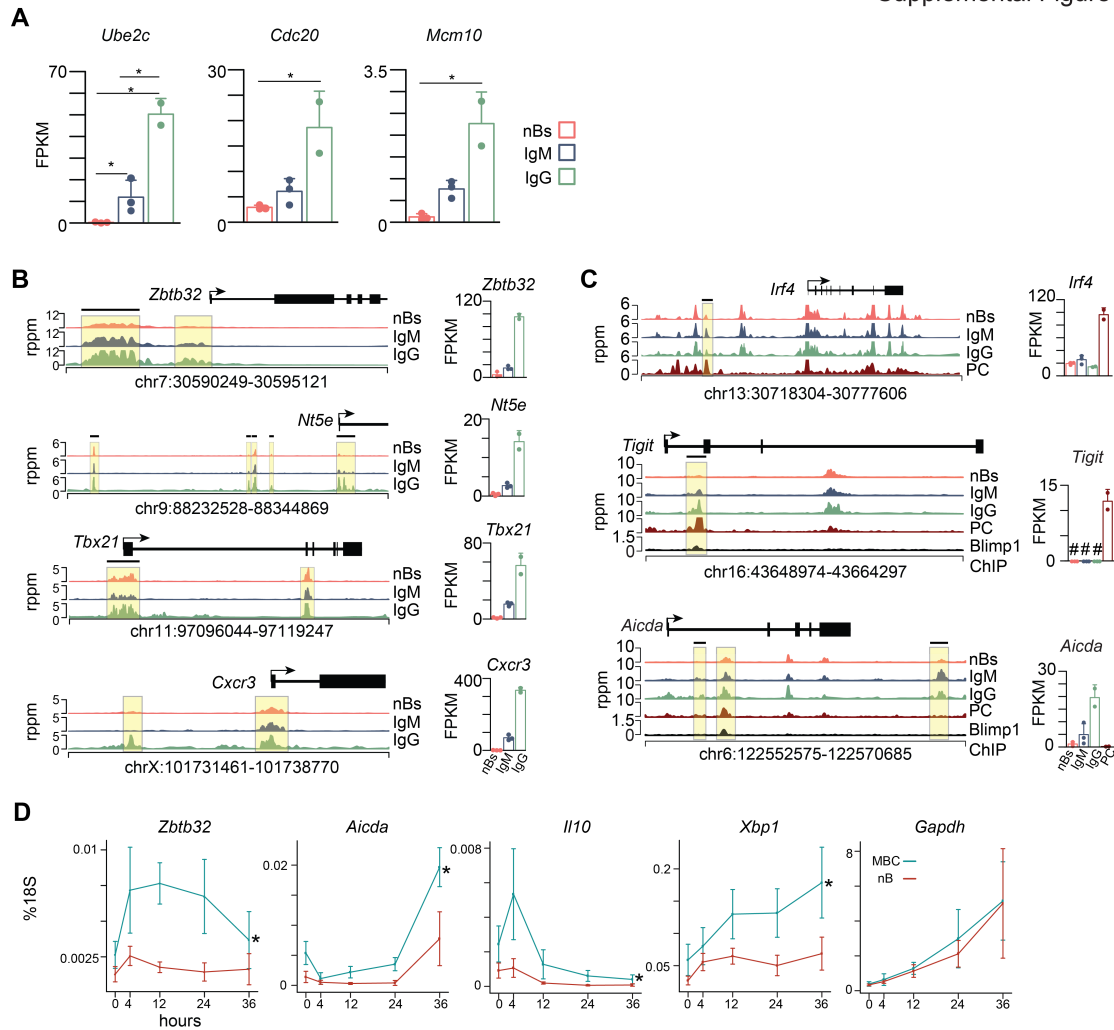


B



Supplemental Figure 2. FACS isolation of influenza-specific MBC and nBs.

Gating strategy showing the FACS isolation of **(A)** nBs from the mediastinal LN and **(B)** IgM and IgG MBCs from pooled spleens and mediastinal LNs from 4 mice per sample. Data related to [Fig. 2](#) and [Fig. 3](#).



Supplemental Figure 3. MBCs harbor unique gene expression and accessibility programs.

(A) Example bar plots of genes that are differentially expressed in MBCs compared to nBs. **(B)** Genome plots (left) and gene expression (right) for select DEG containing corresponding DAR between MBC subsets and nBs. DAR are indicated by a black horizontal bar and regions of interest by a yellow-shaded box. **(C)** Genome plots (left) and gene expression (right) for PC signature genes or genes regulated by BLIMP-1 in PC. # denotes genes not detected by RNA-seq for the indicated cell type. DAR are indicated as above. PC RNA-seq (22), ATAC-seq (49), and BLIMP-1 ChIP-seq (50) datasets were described previously. **(D)** Quantitative RT-PCR time course for the indicated gene in nB or MBC stimulated with CD40L, IL4, and IL5. Data are plotted as a percentage of 18S rRNA with error bars representing SD. Each time point represents cells from 6-9 mice from two independent experiments. Statistical difference was determined by two-way ANOVA with Tukey's post-hoc correction with * indicating $P < 0.05$. Data related to [Fig. 2](#) and [Fig. 3](#).