Supplementary Figures 1 and 2

Aceltransferases GCN5 and PCAF are required for B cell maturation in mice

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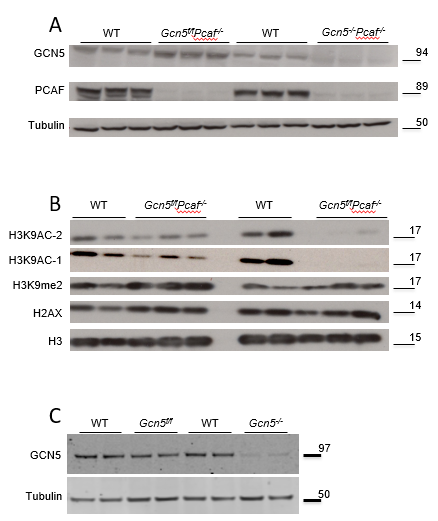
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**Supplementary Figure S1. Detection of GCN5, PCAF and histones using western blot**

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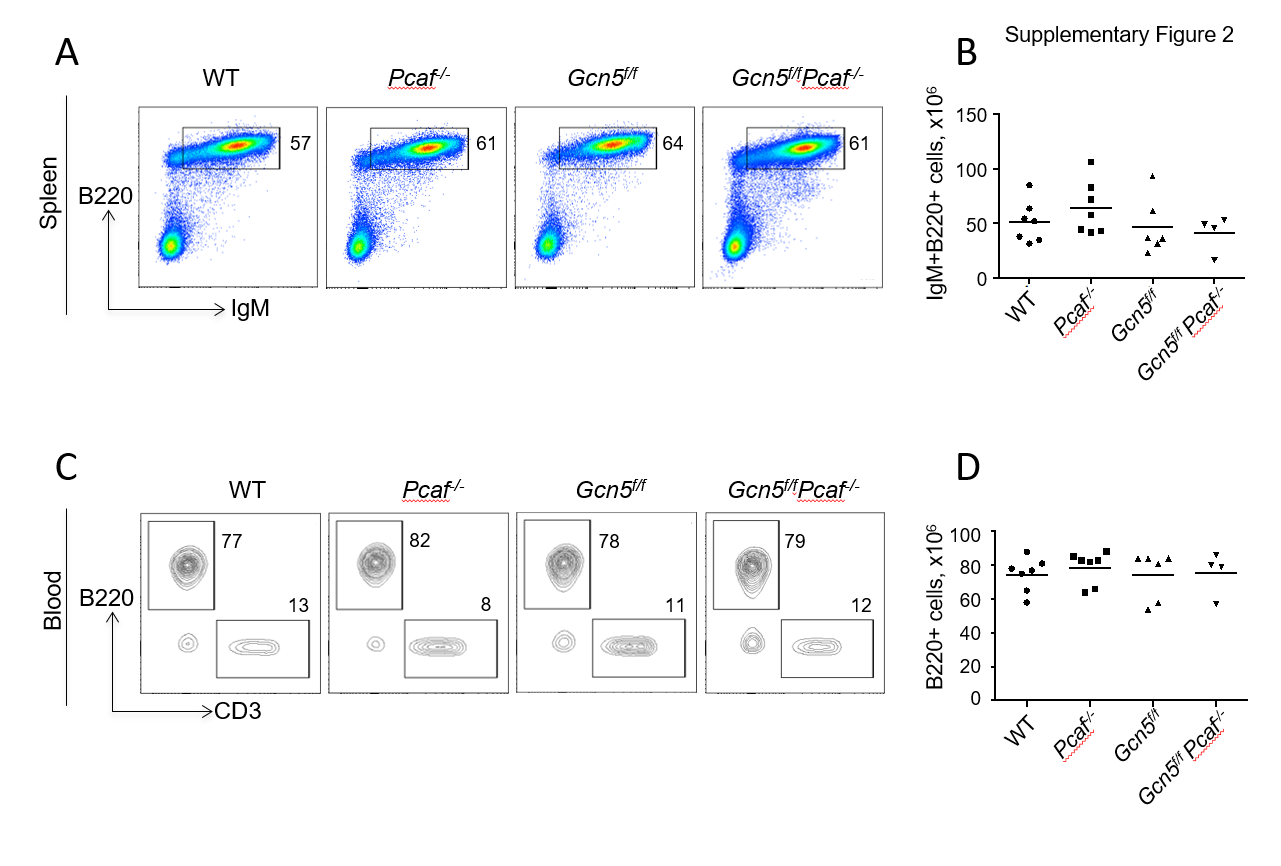
**Supplementary Figure S1. Detection of GCN5, PCAF and histones.**

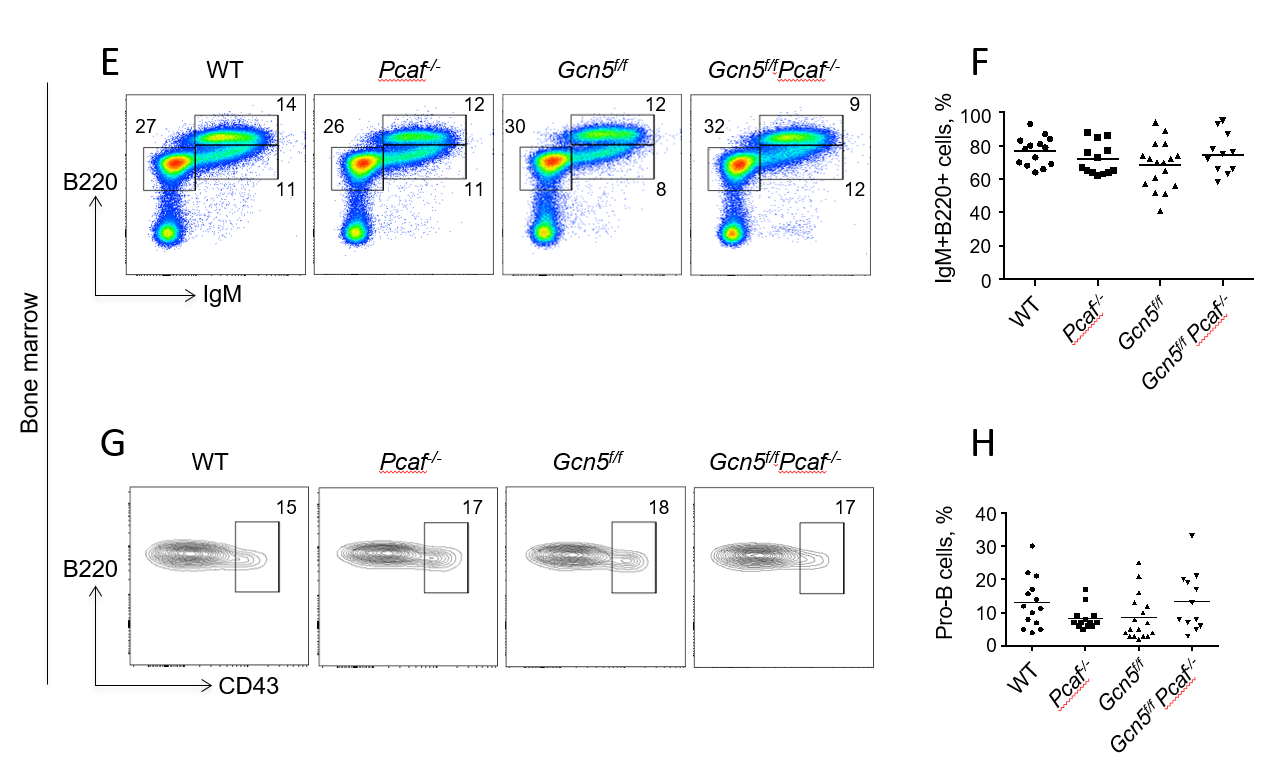
**(A)** Detection of GCN5 and PCAF in primary murine B cells of indicated genotype. GCN5 signal is absent in the *Gcn5-/-* cells. PCAF signal is absent in the *Pcaf-/-* cells. Tubulin was used as a loading control.

**(B)** Western blot detecting Histones H3, H2AX, H3K9me2, H3K9ac (two different antibodies). H3K9Ac signal is missing in the cells lacking both GCN5 and PCAF.

**(C)** Detection of GCN5 and PCAF in primary murine B cells of indicated genotype. GCN5 signal is absent in the *Gcn5-/-* cells.

**Supplementary Figure S2. Detection of developing B cells in mice of indicated genotypes using flow cytometry**

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**Supplementary Figure S2. Detection of developing B cells in mice of indicated genotypes using flow cytometry**

(A) Example of flow cytometry detecting B220+IgM+ mature B cells in spleen.

(B) Summary of several experiments shown in (A).

(C) Example of flow cytometry detecting B220+ B cells and CD3+ T cells in blood.

(D) Summary of several experiments shown in (C).

(E) Example of flow cytometry detecting B220+IgM- and B200+IgM+ developing B cells in bone marrow.

(F) Summary of several experiments shown in (E).

(G) Example of flow cytometry detecting B220+IgM-CD43+ pro-B cells and B220+IgM-CD43- pre-B cells in bone marrow.

(H) Summary of several experiments shown in (G).

**Supplementary Figure S3.** Count of WT, *Pcaf*-deficient, *Gcn5*-deficient, and *Gcn5/Pcaf* double-deficient pro-B cells in bone marrow (million cells); n.s. p>0.3830

