

Supplementary Materials for
**The PI3K Isoforms p110 α and p110 δ Are Essential for Pre-B Cell
Receptor Signaling and B Cell Development**

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The PDF file includes:

Fig. S1. B cell development is intact in the absence of p110 β and p110 δ activities.

Fig. S2. Deficiency in p110 β does not affect B cell maturation in the spleen.

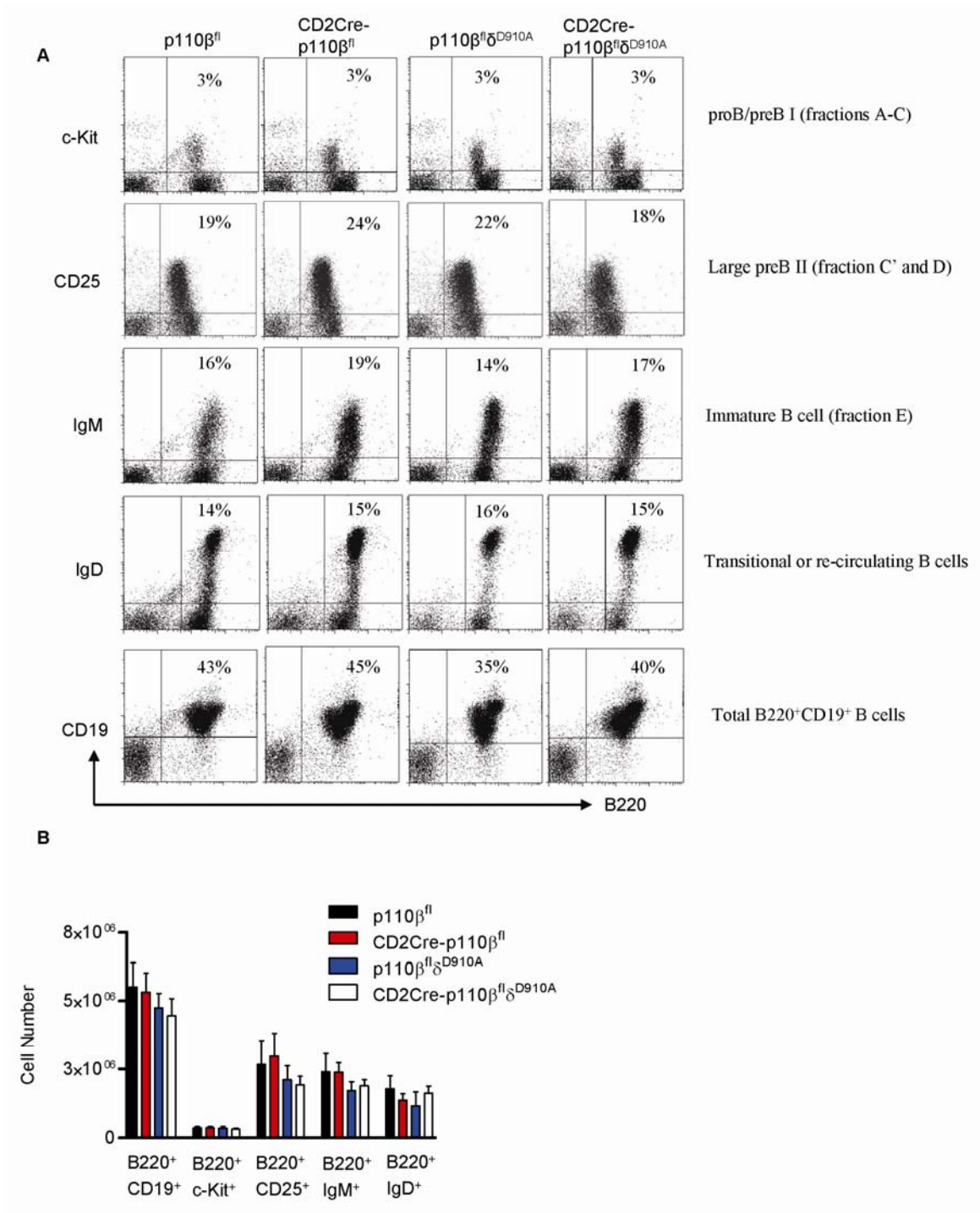


Fig. S1. B cell development is intact in the absence of p110β and p110δ activities. **(A)** Flow cytometric analysis of bone marrow lymphocytes. The percentages in each quadrant or gate are averages. p110β^{fl} (n = 6 mice); CD2Cre-p110β^{fl} (n = 8 mice); CD2Cre-p110β^{fl}Δ^{D910A} (n = 13 mice). **(B)** Total number of each B cell subset from two femurs (± SEM).

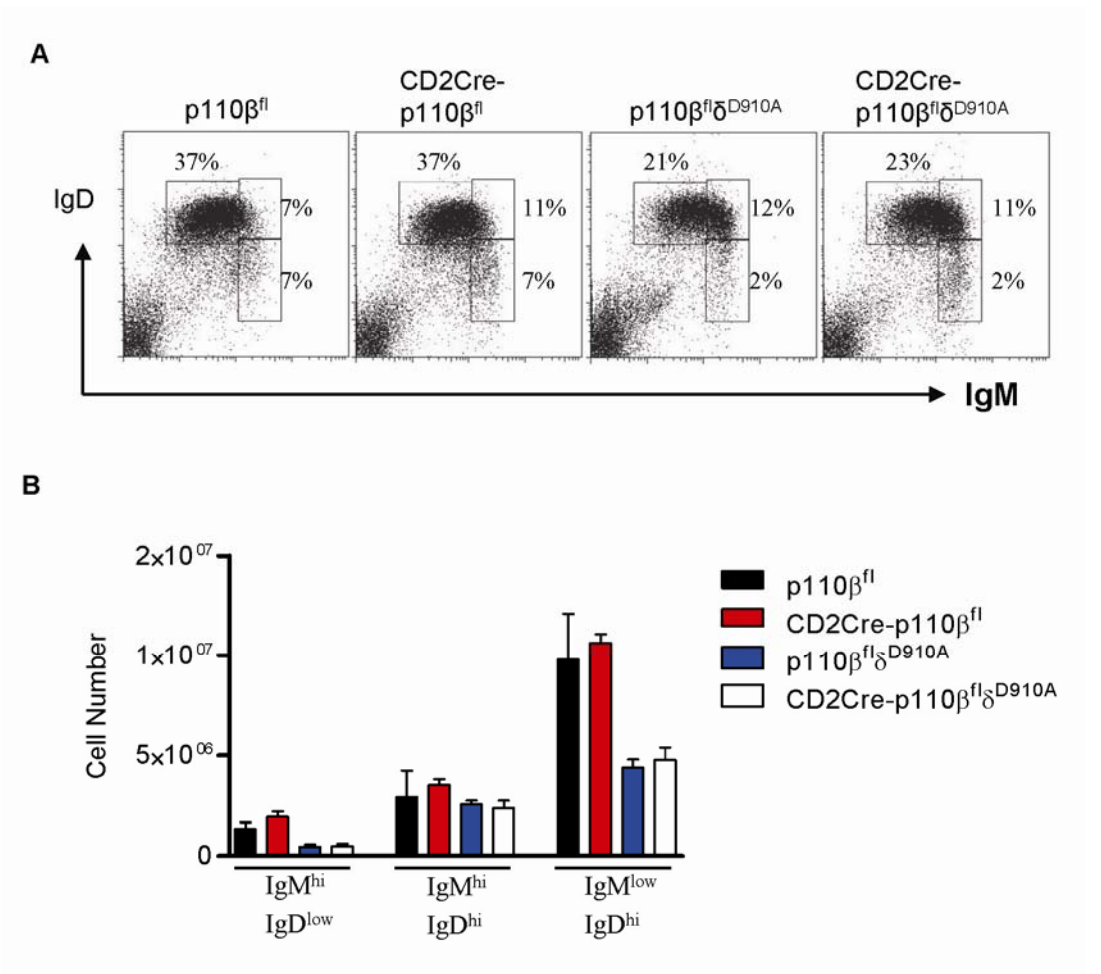


Fig. S2. Deficiency in p110β does not affect B cell maturation in the spleen. **(A)** Splenocytes from p110β^{fl} (n = 11 mice), CD2Cre-p110β^{fl} (n = 6 mice), p110β^{fl}δ^{D910A} (n = 11 mice), and CD2Cre-p110β^{fl}δ^{D910A} (n = 11 mice) were analyzed by flow cytometry for the presence of surface IgD and IgM. **(B)** Numbers of immature (IgM^{high}IgD^{low} or IgM^{high}IgD^{hi}) and mature (IgM^{low}IgD^{high}) B cells (± SEM).