

Supporting Information

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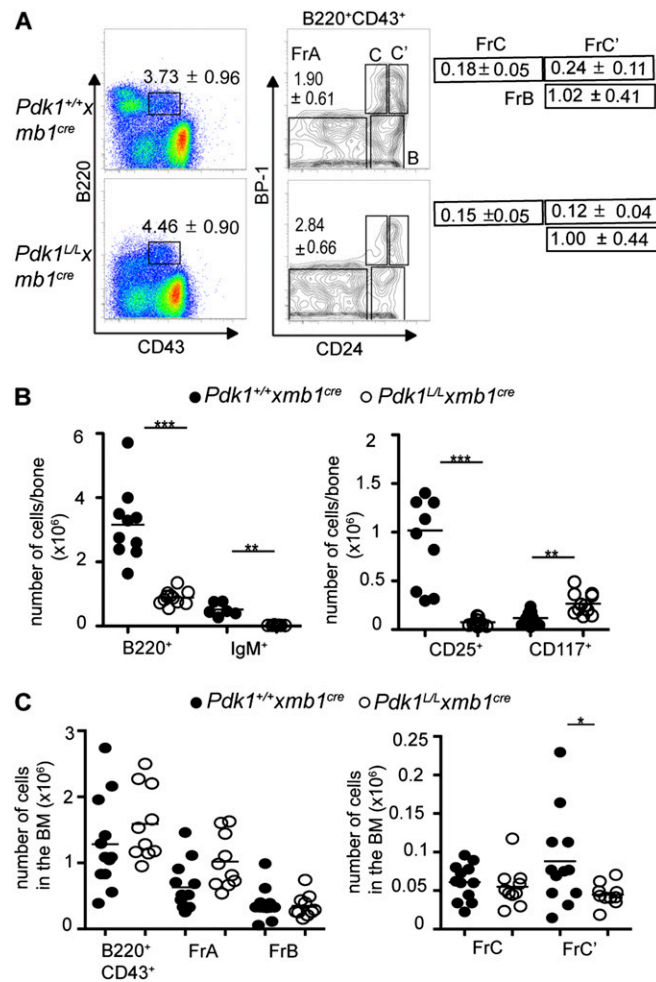


Fig. S1. Phosphoinositide-dependent protein kinase-1 (PDK1) is required for early B cell development. (A) Frequency of B cell progenitors based on Hardy's classification. (B) Absolute numbers of total B cells and of the indicated B cell subsets in the bone marrow. Data represent mean \pm SD of three independent experiments. * $P < 0.05$, Mann-Whitney U test.

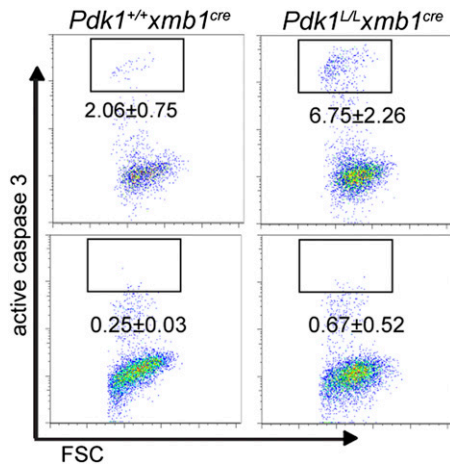


Fig. S2. PDK1 regulates pro-B cell survival. Analysis of active caspase-3 on hematopoietic stem cell-derived pro-B cells that were left untreated (*Upper*) or treated overnight with 20 mM of pan-caspase inhibitor Q-VD-OPH (R&D Systems) (*Lower*) before intracellular flow cytometric analysis.

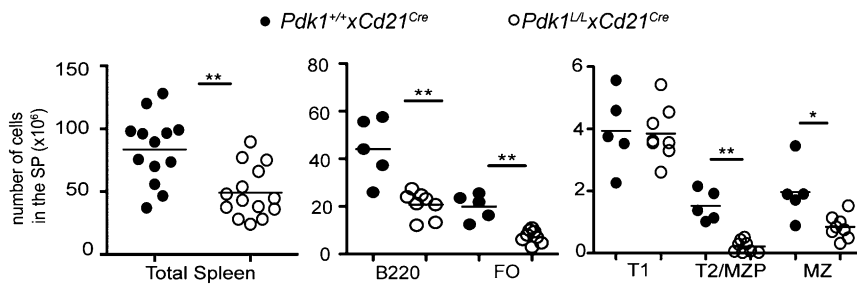


Fig. S3. PDK1 is required for peripheral B cell homeostasis. The graphs represent the absolute numbers of splenic cells, B cells, and B cell subsets in the spleens. Data represent mean \pm SD of three independent experiments. * $P < 0.05$, Mann-Whitney *U* test.

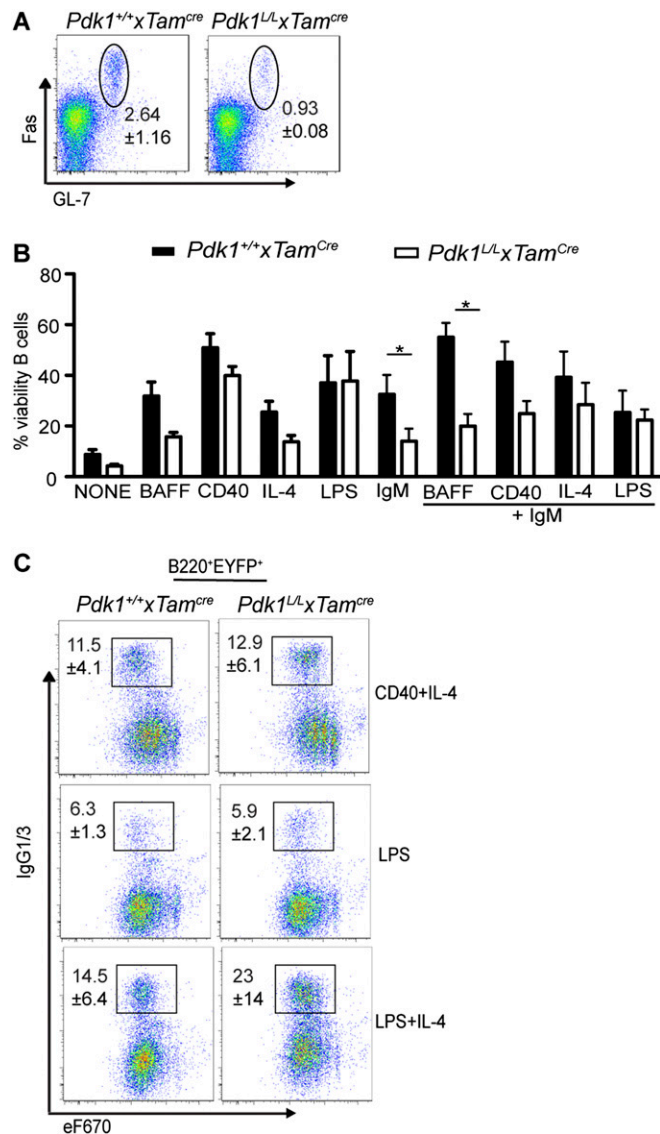


Fig. 55. Effect of acute deletion of PDK1 on peripheral B cell activation. (A) Analysis of splenic EYFP⁺ GC B cells at 7 d after immunization with SRBCs. Tamoxifen was administered at days 3–5. SDs are shown ($n = 4$ per group). (B) Spleens were harvested at 5 d after the last injection of tamoxifen, and purified B cells were cultured for 3 d under the indicated conditions. (C) B cells were loaded with eF640 dye and cultured for 3 d under the indicated conditions. Cell division was assessed based on eF640 dilution by flow cytometry. The density plots show the correlated expression of IgG1 (for the cultures with IL-4) or IgG3 (for the cultures with LPS) and eF640 dilution. Data represent the mean \pm SD of two or more independent experiments. * $P < 0.05$, Mann–Whitney U test.

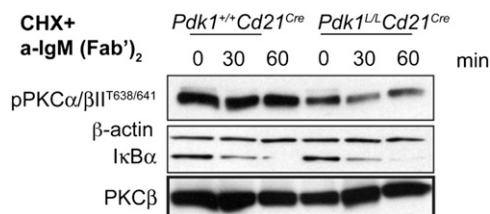


Fig. 56. PKC α / β activation in *Pdk1^{LL} × Cd21^{Cre}* B cells. CD43⁺CD9⁻ cells were stimulated with 10 μ g/mL α -IgM (Fab')₂ for the indicated period in the presence of cycloheximide (CHX) to block de novo protein synthesis and allow for assessment of PKC stability. Whole-cell lysates were prepared for immunoblot analysis for the indicated targets, with β -actin serving as a loading control.