

Supplementary Figures Legend.

Supplementary Figure 1.

- a. FACS plots indicating frequencies of granulocytes (CD11b⁺Ly6G⁺) and monocytes/ macrophages (CD11b⁺Ly6G⁻) in the BM of 4-week old mice.
- b. Frequencies of granulocytes (CD11b⁺Ly6G⁺) and monocytes/ macrophages (CD11b⁺Ly6G⁻) in the BM of 4-week old mice (n= 5-9).
- c. FACS plots indicating frequencies of Erythrocytes (Ter119⁺) in the BM of 4-week old mice.
- d. Frequencies of Erythrocytes (Ter119⁺) in the BM of 4-week old mice (n= 5-9).
- e. FACS plots indicating frequencies of Megakaryocytes (CD41⁺) in the BM of 4-week old mice.
- f. Frequencies of Megakaryocytes (CD41⁺) in the BM of 4-week old mice (n= 5-9).
- g. FACS plots indicating frequencies of B cells (CD19⁺) in the BM of 4-week old mice.
- h. Frequencies of B cells (CD19⁺) in the BM of 4-week old mice (n= 5-9).
- i. Surface expression levels of CD80, CD86 and CD40 from the BM of DKO and control mice cultured *in-vitro* in the presence of GM-CSF for 7 days (n=11). Cells were pre-gated on CD11c⁺CII^{high} cells. Shown are Geomean fluorescence Intensities (GMFI) of surface markers.
- j. Surface expression levels of CD80, CD86 and CD40 from the BM of DKO and control mice cultured *in-vitro* in the presence of GM-CSF for 7 days and stimulated with TNF α for 24 hours (n=11). Cells were pre-gated on CD11c⁺CII^{high} cells. Shown are Geomean fluorescence Intensities (GMFI) of surface markers.
- k. Surface expression levels of MHC-Class I, MHC-Class II, CD80, CD86 and CD40 from the BM of DKO and control mice cultured *in-vitro* in the presence of Flt3L for 14 days (n=11). Cells were pre-gated on CD11c⁺CD11b⁺, CD11c⁺CD11b⁺CD45RA⁺CLEC9A⁻, CD11c⁺CD11b⁺CD45RA⁻CLEC9A⁺ cells. Shown are Geomean fluorescence Intensities (GMFI) of surface markers.

Supplementary Figure 2.

- a. Histograms indicating EGFP fluorescence in total DCs, cDC1, cDC2 and pDC subsets of the spleen from Control (**Top**) and Rosa^{GFP} Vav^{Cre} (**bottom**) mice. Data are representative of 5 independent experiments. Shown are the frequencies of cells within the GFP⁺ gate.
- b. Representative image of agarose gel indicating the profiles of PCR products that were amplified using genomic DNA obtained from MACS sorted CD11c⁺ DCs of BM and spleen from control (p85 α ^{+/+}p85 β ^{+/+}), heterozygous (p85 α ^{F/+}p85 β ^{+/-}Vav^{Cre}) and DKO (p85 α ^{F/F}p85 β ^{-/-}Vav^{Cre}) mice. # indicates genomic DNA samples from independent animals.

c. Representative images of agarose gel indicating the RT-PCR products that were amplified using cDNA obtained from MACS sorted CD11c⁺ DCs of BM and spleen of control (p85 $\alpha^{+/+}$ p85 $\beta^{+/+}$) and DKO (p85 $\alpha^{F/F}$ p85 $\beta^{-/-}$ Vav^{Cre}) mice. Each lane indicates cDNA samples from a pool of DCs from two animals .

Supplementary Figure 3.

a. Frequencies (n=8-11) of cDC, cDC1, cDC2 and pDC subsets in the spleen of 6-8 weeks old control and p85 $\alpha^{F/F}$ Vav^{Cre} mice.

b. Frequencies (n=8-11) of cDC, cDC1, cDC2 and pDC subsets in the spleen of 6-8 weeks old control and p85 $\beta^{-/-}$ mice.

c. Frequencies (n=8-11) of cDC, pDC, cDC1 and cDC2 subsets in the BM of 6-8 weeks old control and p85 $\alpha^{F/F}$ Vav^{Cre} mice.

d. Frequencies (n=8-11) of cDC, pDC, cDC1 and cDC2 subsets in the BM of 6-8 weeks old control and p85 $\beta^{-/-}$ mice.

Data represent mean and s.e.m. Two-tailed student's t tests were used to assess statistical significance (*P < 0.05, **P<0.01, ^{n.s.} P > 0.05).

Supplementary Figure 4.

a. Frequencies (n=9) of total cDCs in the spleen of 6-8 weeks old control and Pi3kr1^{F/+}Vav^{Cre/+} mice.

b. Frequencies (n=8) of cDC1 in the spleen of 6-8 weeks old control and Pi3kr1^{F/+}Vav^{Cre/+} mice.

c. Frequencies (n=9) of cDC2 in the spleen of 6-8 weeks old control and Pi3kr1^{F/+}Vav^{Cre/+} mice.

d. Frequencies (n=11) of pDCs in the spleen of 6-8 weeks old control and Pi3kr1^{F/+}Vav^{Cre/+} mice.

Data represent mean and s.e.m. Two-tailed student's t tests were used to assess statistical significance (*P < 0.05, **P<0.01, ^{n.s.} P > 0.05).

Supplementary Figure 5.

a. Frequencies (n=11-21) of total cDCs in the BM of 6-8 weeks old control and Pi3kr1^{F/+}Vav^{Cre/+} mice.

b. Frequencies (n=16-17) of pDCs in the BM of 6-8 weeks old control and Pi3kr1^{F/+}Vav^{Cre/+} mice.

c. Frequencies (n=12-23) of PDCA1-CD11c⁺ DCs in the BM of 6-8 weeks old control and Pi3kr1^{F/+}Vav^{Cre/+} mice.

d. Frequencies (n=10-12) of PDCA1⁻CD11c⁺CD8⁺ DCs in the BM of 6-8 weeks old control and Pi3kr1^{F/+}Vav^{Cre/+} mice.

e. Frequencies (n=11-29) of PDCA1⁻CD11c⁺CD11b⁺ DCs in the BM of 6-8 weeks old control and Pi3kr1^{F/+}Vav^{Cre/+} mice.

f. Frequencies (n=6-16) of PDCA1⁻CD11c⁺CD11b⁻CD8⁻ DCs in the BM of 6-8 weeks old control and Pi3kr1^{F/+}Vav^{Cre/+} mice.

Data represent mean and s.e.m. Two-tailed student's t tests were used to assess statistical significance (*P < 0.05, **P<0.01, ^{n.s.} P > 0.05).

Supplementary Figure 6. Pre-gating scheme of flow cytometric analysis of BM, Spleen and thymus.