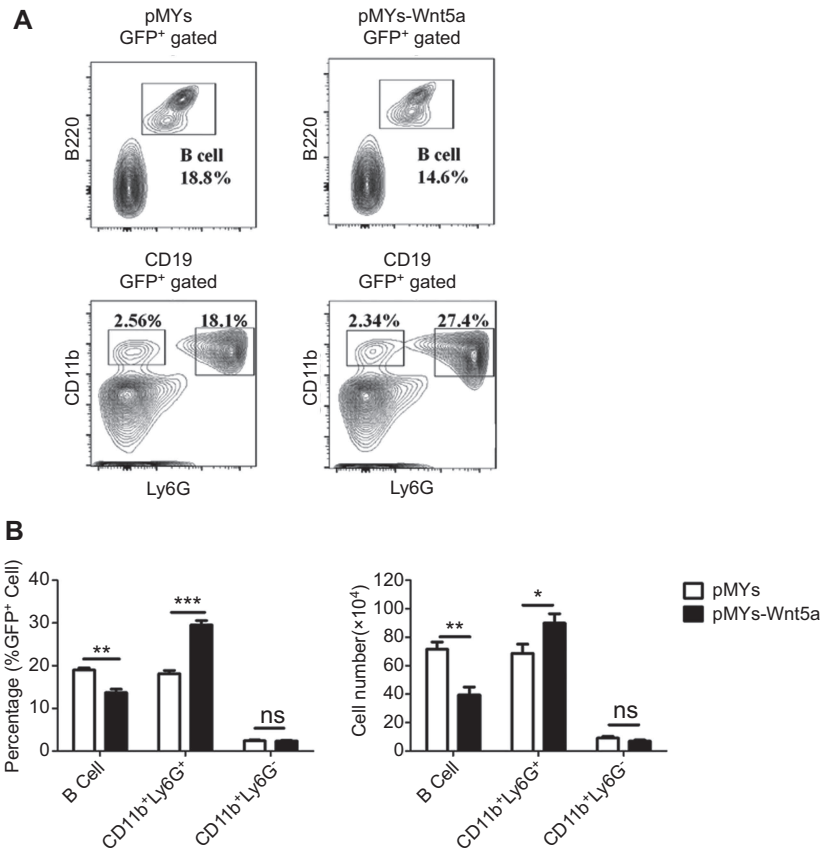
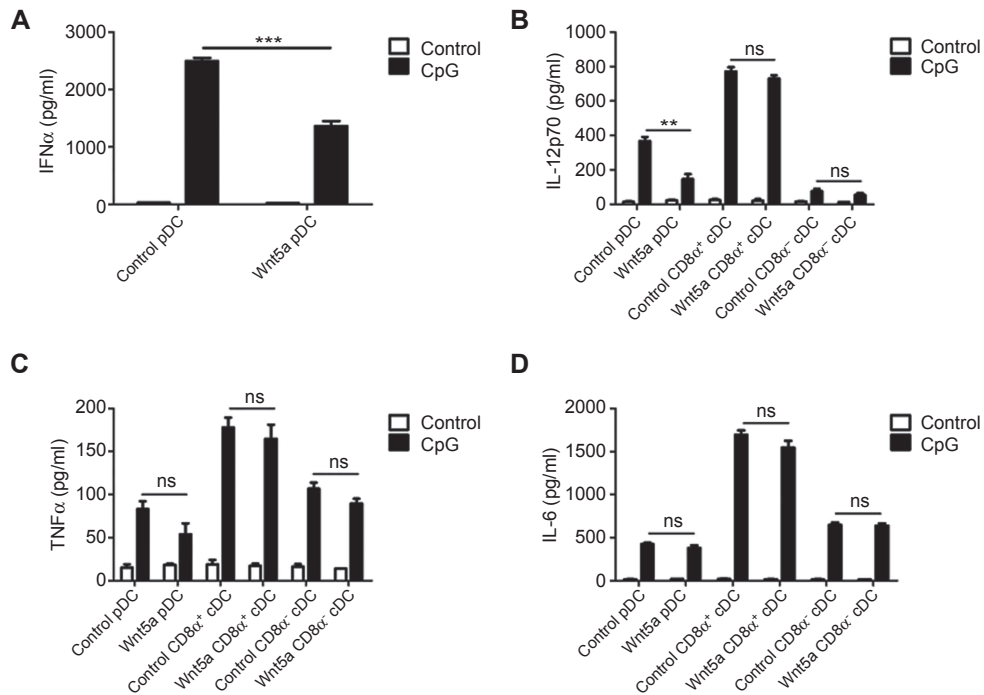


Supplemental Figure 1 FACS analysis of hematopoietic cells in young and aged mice. **(A–C, E)** Lin[−] cells enriched from the BM of young and aged mice were analyzed by flow cytometry. The FACS plots show the percentages of HSC **(A)**, CLP **(B)**, CMP, GMP **(C)**, and CDP **(E)** in the BM of young and aged mice. **(B)** The FACS plots show the percentages of B cells and granulocytes in the BM of young and aged mice.



Supplemental Figure 2 A decreased number of B cells and increased number of CD11b⁺Ly6G⁺ myeloid cells were found in the BM of Wnt5a-overexpressing mice. Lin⁻ CD45.2 BM cells were retrovirally transduced with the control or Wnt5a overexpression plasmid. A total of 1×10^5 sorted Lin⁻ GFP⁺ CD45.2 BM cells in combination with 1×10^5 untreated CD45.1 BM cells were transplanted into lethally irradiated CD45.1 recipient mice. Six weeks later, the percentages (**A**) and numbers (**B**) of CD45.2 donor-derived CD19⁺B220⁺ B cells and CD11b⁺Ly6G⁻ and CD11b⁺Ly6G⁺ myeloid cells in the BM of chimeric mice were analyzed by flow cytometer. Data are representative of three independent experiments. Error bars represent SEM (* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$).



Supplemental Figure 3 Wnt5a negatively regulated the production of IFN- α and IL12p70 by pDC. Sorted pDC, CD172a $^-$ CD8 α^+ , and CD172a $^+$ CD8 α^- cDC were cultured in 96-well plates, pretreated with or without 200 ng/mL Wnt5a for 2 hours and then stimulated with 5 μ M CpG (ODN2216) for 48 hours. The production of IFN- α (**A**) in pDC, and IL12p70 (**B**), TNF α (**C**), and IL-6 (**D**) in pDC and cDC were analyzed. Data are representative of two independent experiments. Error bars represent SEM (* $P < 0.05$, ** $P < 0.01$).

Supplementary Table 1 Primers for RT-PCR

Genes	Forward (5'-3')	Reverse (5'-3')
Ikaros	CGCCAAACGAGACAAGTG	CAGCCCCAGGTAGTTG
Myc	CTGAAGAAGAGCAAGAAGATGA	GACGTGGCACCTCTTGAG
Notch1	CAGAACAACAAGGAGGAGACT	GCAATCGGTCCATGTGAT
Notch2	GCAGGACAATAAGGAAGAGAC	GGCTGGGAGTCAGTTATA
PU.1	AGCCATAGCGATCACTACTG	TCTGTTCCAGCTCCATGTG
Gfi-1	TCATCCACACAGGTGAGAAG	CTTCCCACACAGGTCACAG
Bcl11a	GCCAGAGGATGACGATTG	TGTGCAGACCGAGGAGAG
Flt3	CAGAAGAAGCGATGTATCAGA	TCTTTCTCCGTGAATCTTCA
IL-7R	CAAAAACGAGTCTGAATGTGA	GTGTCCCTGTGTCTCCAAC
β -actin	ATGCTCCCCGGGCTGTAT	CATAGGAGTCCTTCTGACCCATTC