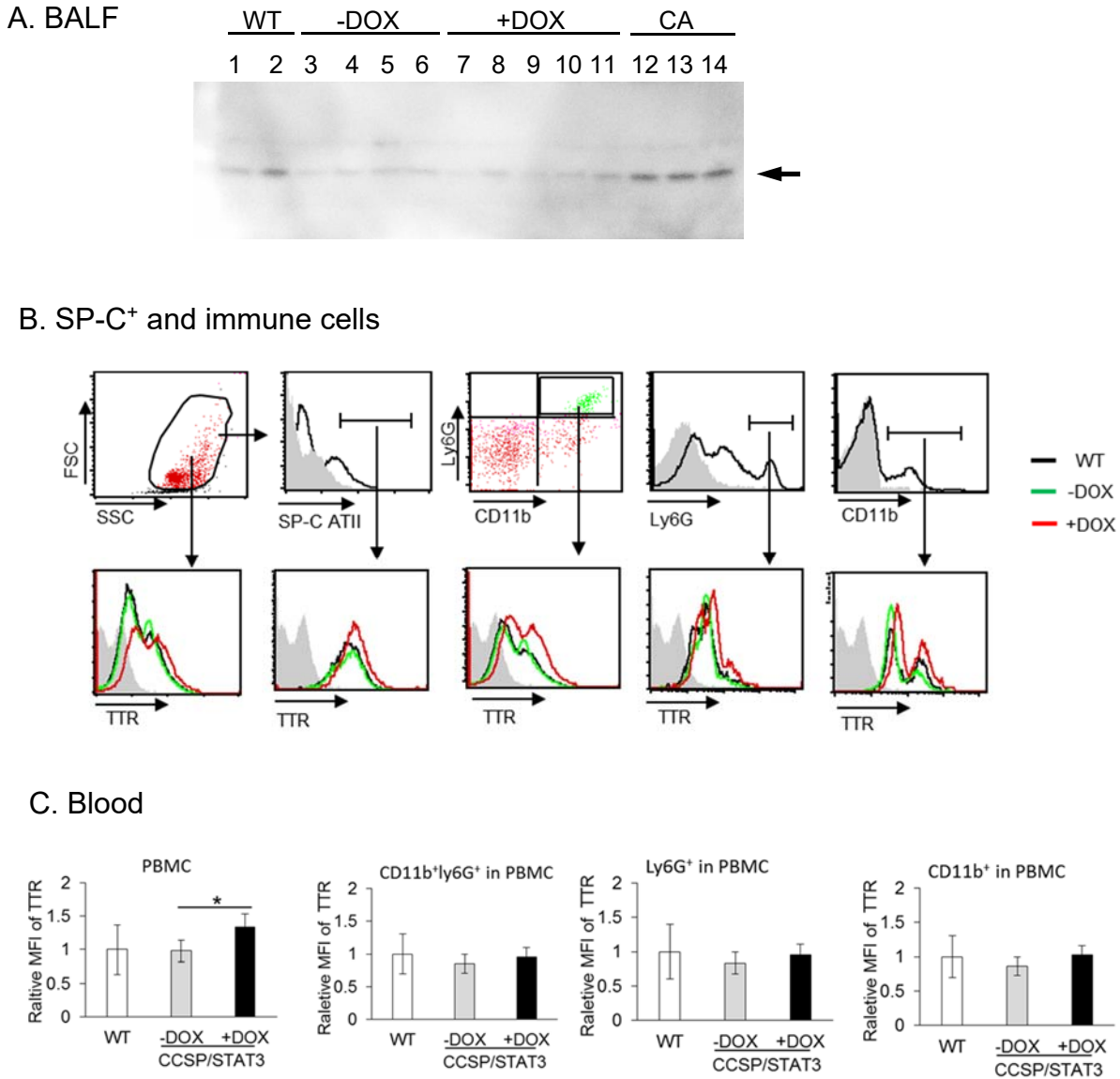
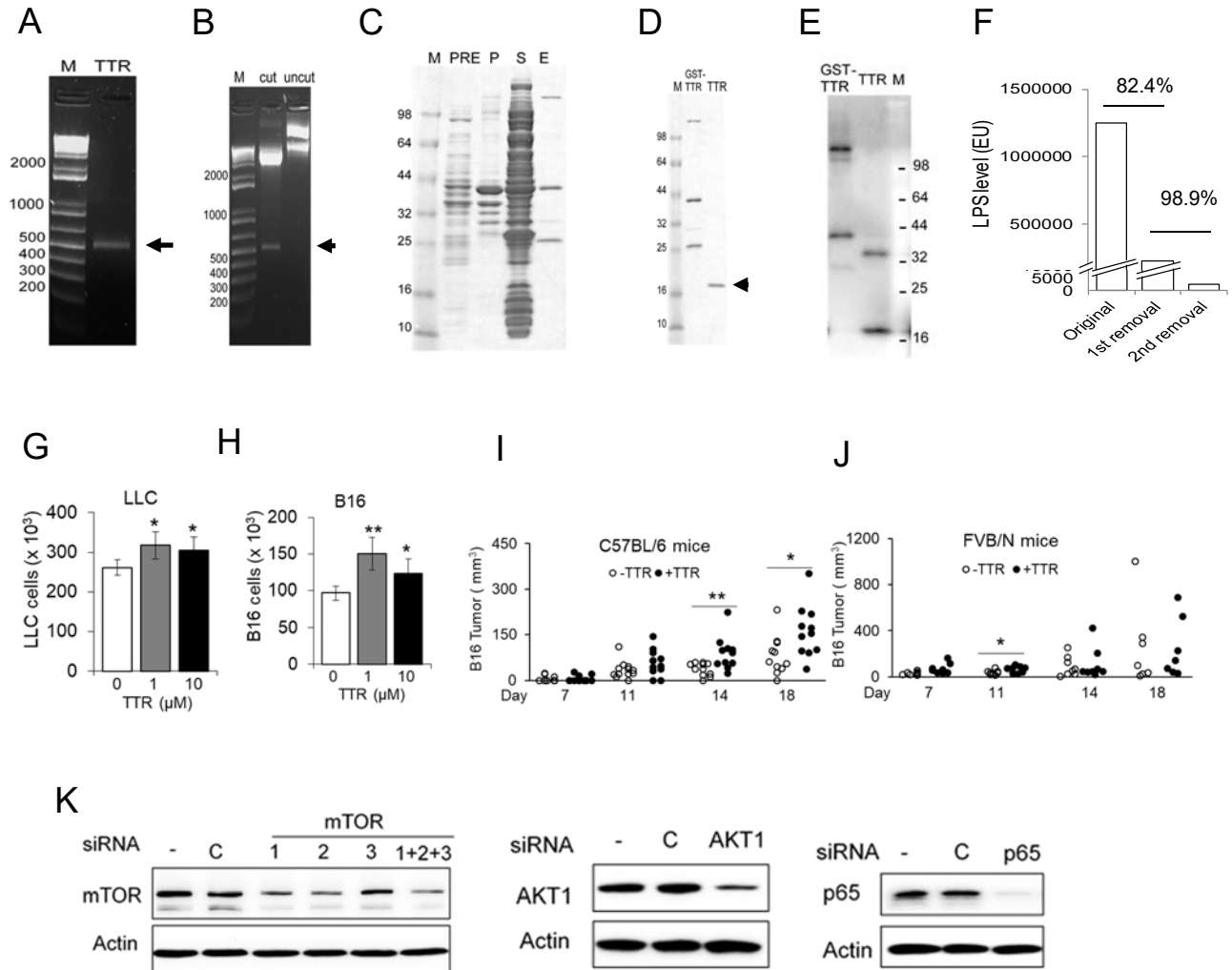


Supplemental Figure 1



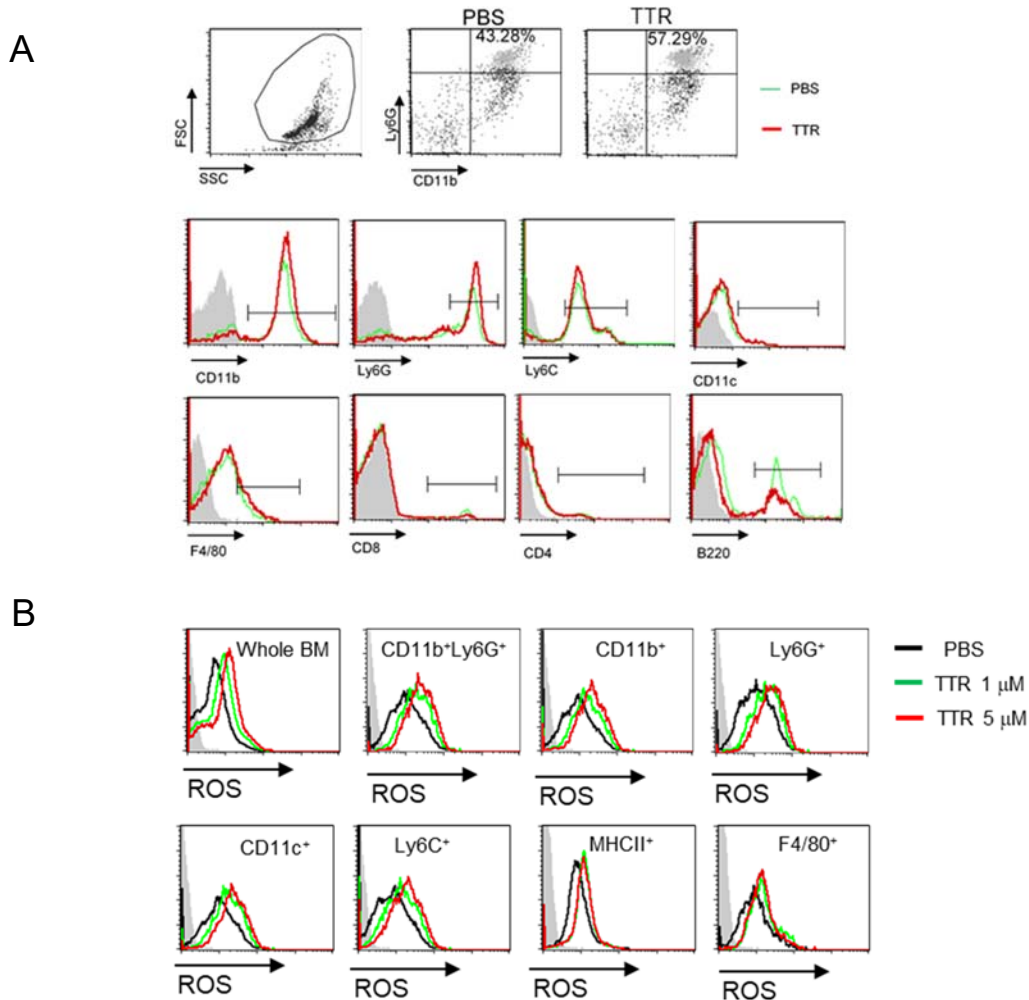
Supplemental Figure 1. The expression level and distribution of TTR in BALF, blood and spleen of CCSP-rtTA/(tetO)₇-Stat3C bitransgenic mice. (A) The expression levels of TTR in bronchoalveolar lavage fluid (BALF) of CCSP-rtTA/(TetO)₇-Stat3C bitransgenic mice were determined by Western blot. The arrow points to TTR. WT, wild type; -Dox, doxycycline untreated; +Dox, doxycycline treated without tumor; CA, doxycycline treated with tumor. (B) The gating strategies of the relative TTR expression levels in whole cells, SPC⁺ cells, CD11b⁺Ly6G⁺ cells, Ly6G⁺ cells and CD11b⁺ cells of the lungs from WT and doxycycline treated (+DOX) and untreated (-DOX) CCSP-rtTA/(TetO)₇-Stat3C bitransgenic mice by flow cytometry; (C) The relative expression levels of TTR in whole white blood cells, CD11b⁺Ly6G⁺ cells, Ly6G⁺ cells and CD11b⁺ cells of the blood were determined by flow cytometry, n = 4. *, p < 0.05.

Supplemental Figure 2



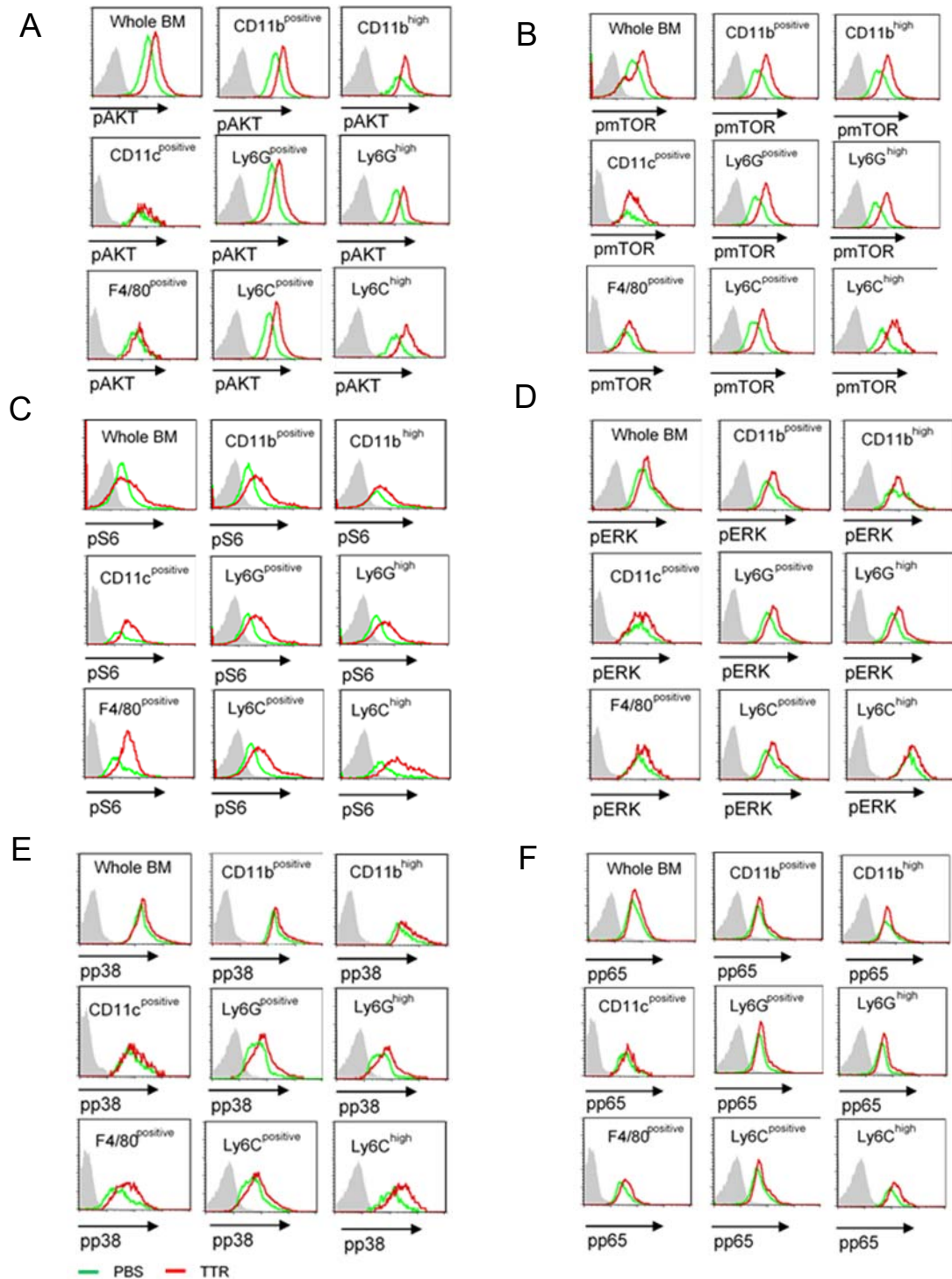
Supplemental Figure 2. Molecular cloning, protein expression of mouse transthyretin (TTR) cDNA, and effect of TTR on tumor cell proliferation and tumor growth. (A) The TTR cDNA was visualized in agarose gel. **(B)** The TTR-Flag cDNA insert in the pGEX-4T-1-TTR-Flag plasmid vector was confirmed by Not I and Xma I restriction enzyme digestion. **(C)** The expression of GST-TTR-Flag fusion protein (~42 kDa) in pre-induction (PRE), post induction pellet (P), supernatant (S) and GST column elution (E) were analyzed by SDS-PAGE and Coomassie blue staining. The TTR-Flag fusion protein (17 kDa) was digested by thrombin, visualized by Coomassie staining **(D)**, and confirmed by Western blot analysis by using anti-FLAG antibody **(E)**. **(F)** The LPS level in purified TTR-Flag fusion protein was measured before and after the removal procedure by endotoxin assay kit. In **A-E**), M, molecular weight marker of DNA or protein. Cut, vector digested by NotI and XmaI. Uncut, pGEX-4T-1-TTR plasmid. Recombinant TTR stimulate Lewis lung carcinoma (LLC) cells **(G)** and B16 melanoma cells **(H)** proliferation in vitro. n=4-5. Recombinant TTR stimulates B16 melanoma *in vivo* growth in syngeneic recipient C57BL/6 mice (n=11) **(I)** and allogeneic recipient FVB/N mice (n=8) **(J)**. for **G-J**), *, p<0.05. **, p<0.01. **(K)** Expression levels of mTOR, AKT, and NFκB after siRNA knockdown respectively were measured by Western blot analyses.

Supplemental Figure 3



Supplemental Figure 3. Gating strategies of myeloid cells from the bone marrow after TTR injection *in vivo* and ROS assay after TTR treatment *in vitro*. (A) The TTR effect on differentiation of bone marrow lineage cells *in vivo*. TTR (320 μg / mouse) was i.v. injected into wild type mice twice a week for two weeks, and PBS was used as control. Single cells from the bone marrow were analyzed by flow cytometry. (B) ROS assay after TTR treatment *in vitro*. Fresh bone marrow cells (1×10^6) from wild type mice were recovered in RPMI 1640 medium (10% FBS) at 37°C for 1 hour, followed by treatment with or without TTR (1, 5 μM) in PMB (50 $\mu\text{g}/\text{ml}$) for 1 hour. Treated cells were stained with myeloid lineage specific surface markers and 2 $\mu\text{mol}/\text{L}$ 2', 7'-dichlorofluorescein diacetate (Invitrogen). The ROS level was measured by flow cytometry in gated areas using a LSRII machine (Becton Dickinson).

Supplemental Figure 4



Supplemental Figure 4. Gating strategies of signaling molecules involved in differentiation of bone marrow myeloid lineage. Whole bone marrow cells were isolated from wild type mice and cultured *in vitro* with TTR (5 μ M) treatment or PBS control for 2 days. Activation of signaling molecules were analyzed by antibodies against phosphorylated Akt (A), mTOR (B), S6 (C), ERK (D), p38 (E), and NF κ B p65 (F) in myeloid lineage cells by flow cytometry.