



Supplementary Fig. 2. Characterization of $LSL-Kras^{G12D} \times Mx1-Cre$ -induced leukemia in $Nox2^{-/-}$ mice. (A-C) $Nox2^{-/-}$ - $LSL-Kras^{G12D} \times Nox2^{-/-}$ - $Mx1-Cre$ ($Nox2^{-/-}$ M- $Kras^{G12D}$; blue lines) mice and wild-type ($Nox2^{-/-}$ $Kras^{WT}$; black lines) mice were injected with pIpC at the time point w_0 . Peripheral blood was collected at 3, 5 and 7 weeks (w3-7) after pIpC injection. The peripheral blood of $Nox2^{-/-}$ M- $Kras^{G12D}$ mice showed a progressive increase in white blood cell (WBC) counts (A), along with a reduction of red blood cell (RBC) counts (B) and hemoglobin levels (C; $n=8$ for $Nox2^{-/-}$ $Kras^{WT}$ at each time point, $n=8$ for $Nox2^{-/-}$ M- $Kras^{G12D}$ at each time point except $n=2$ at w7). (D) Number of splenocytes isolated from endpoint $Nox2^{-/-}$ M- $Kras^{G12D}$ mice (blue, $n=6$). The splenocyte counts from $Nox2^{-/-}$ $Kras^{WT}$ mice (black, $n=6$) are shown for comparison (t -test). (E) Frequency of CD11b⁺-infiltrating cells among live cells in the spleens of endpoint $Nox2^{-/-}$ M- $Kras^{G12D}$ mice (blue, $n=5$) and $Nox2^{-/-}$ $Kras^{WT}$ mice (black, $n=5$) (t -test). * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.