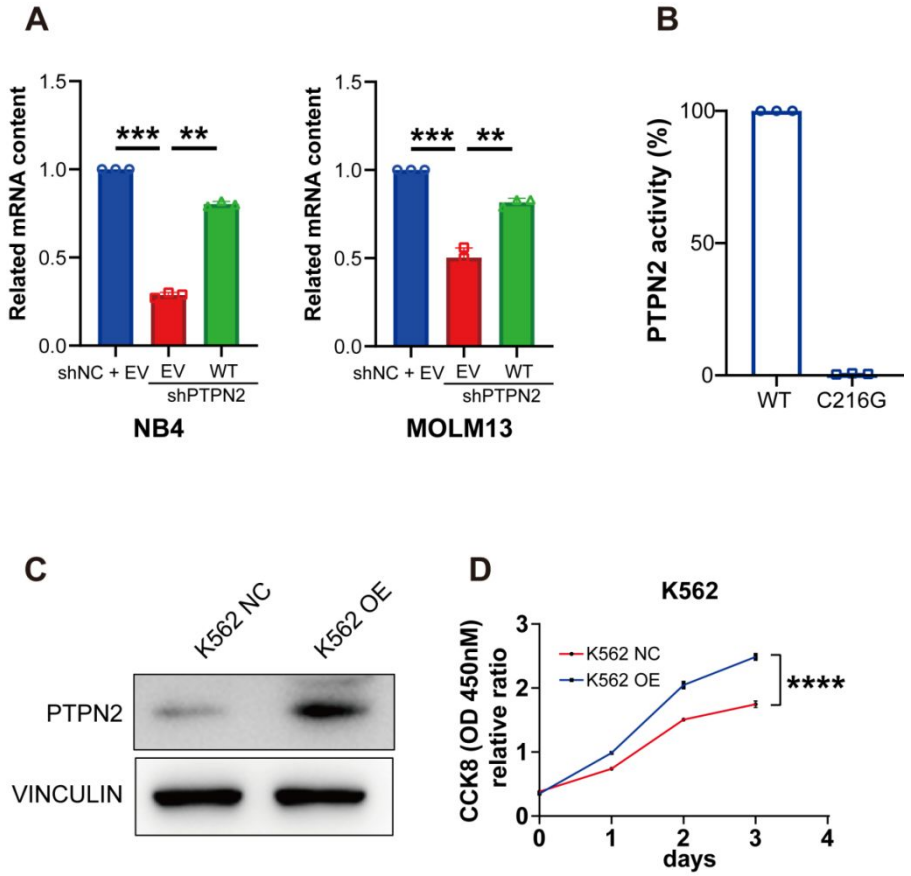


Supplementary Figure 1. Knockdown or over-expression of PTPN2 significantly affect AML in vitro and in vivo. (A) PTPN2 mRNA level in NB4 and MOLM13 cells with PTPN2 knock down and rescue over-expression. Data represent the mean ± SD. Statistical analysis was performed using two-tailed unpaired Student's t-test (B) The protein activity of PTPN2 with mutation of amino acid 216 (C) Protein level of PTPN2 in K562 cells that were infected with lentiviral shNC and over-expression. (D) Cell viability of K562 shNC and over-expression cells during a 4-day course. Data represent the mean ± SD. Statistical analysis was performed using two-tailed unpaired Student's t-test. **, $P < 0.01$, ***, $P < 0.001$, ****, $P < 0.0001$.