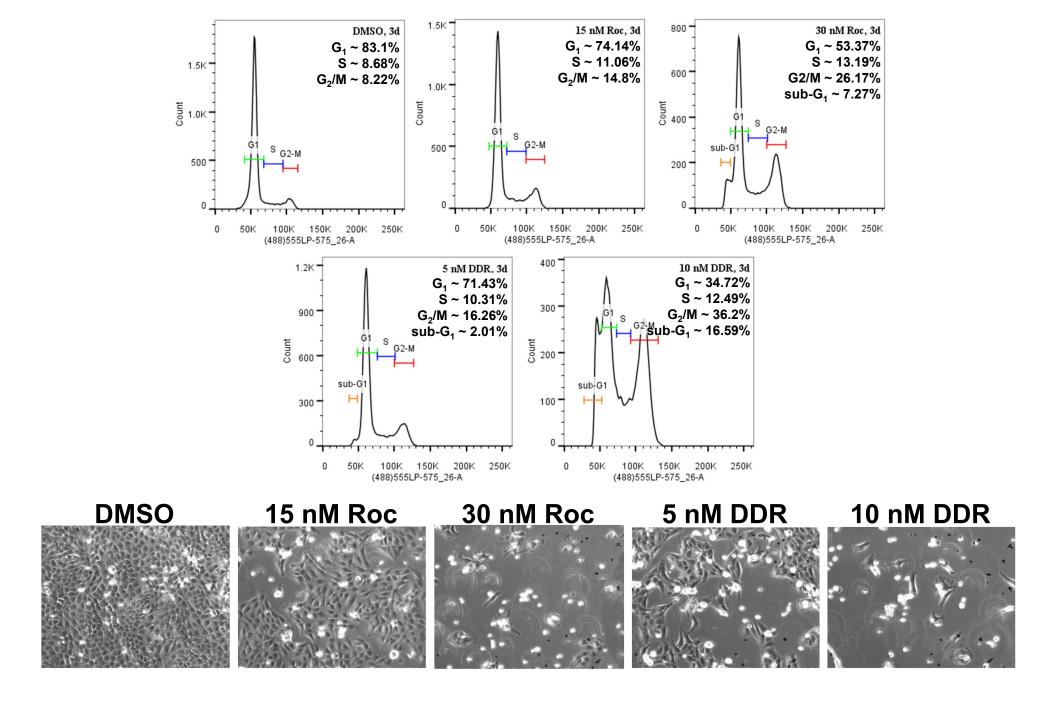
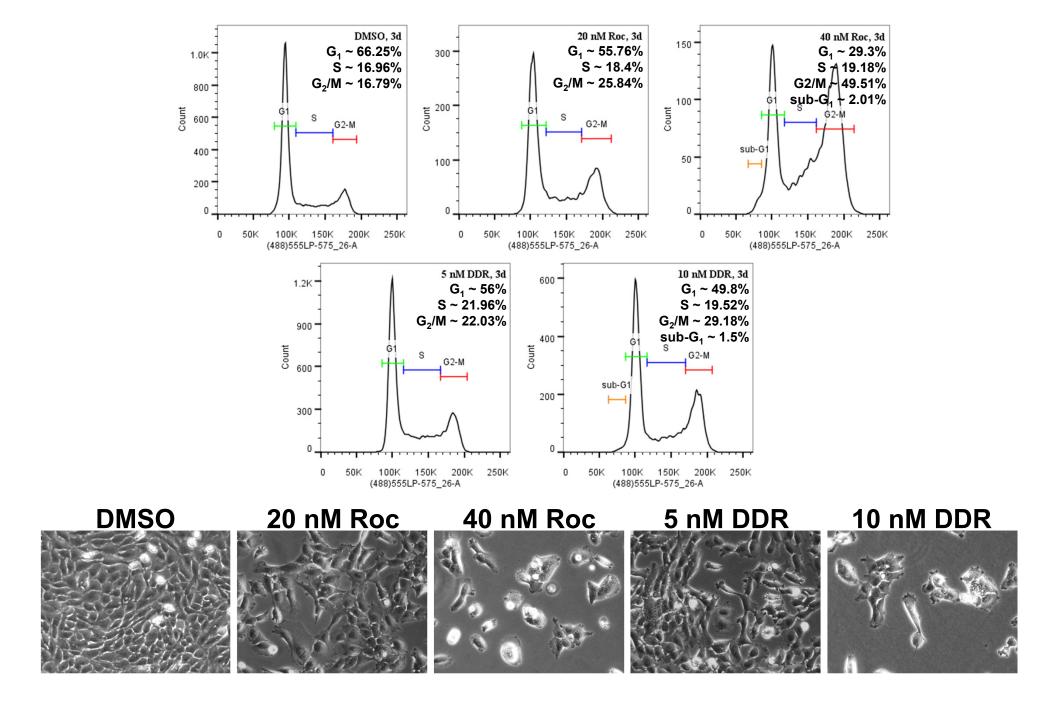
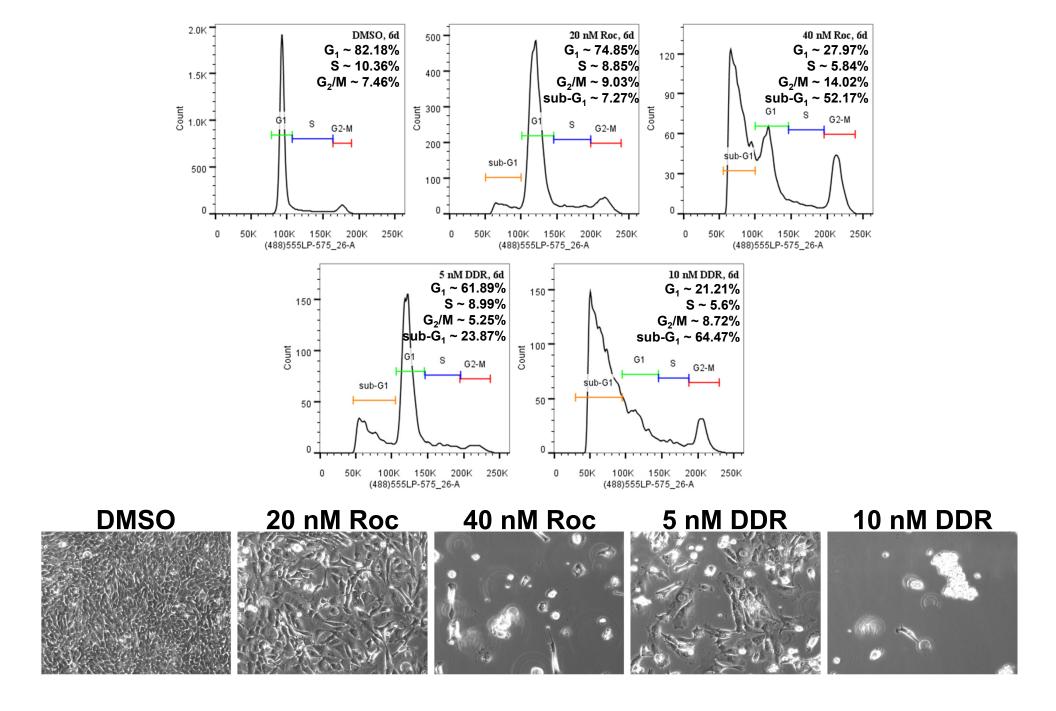
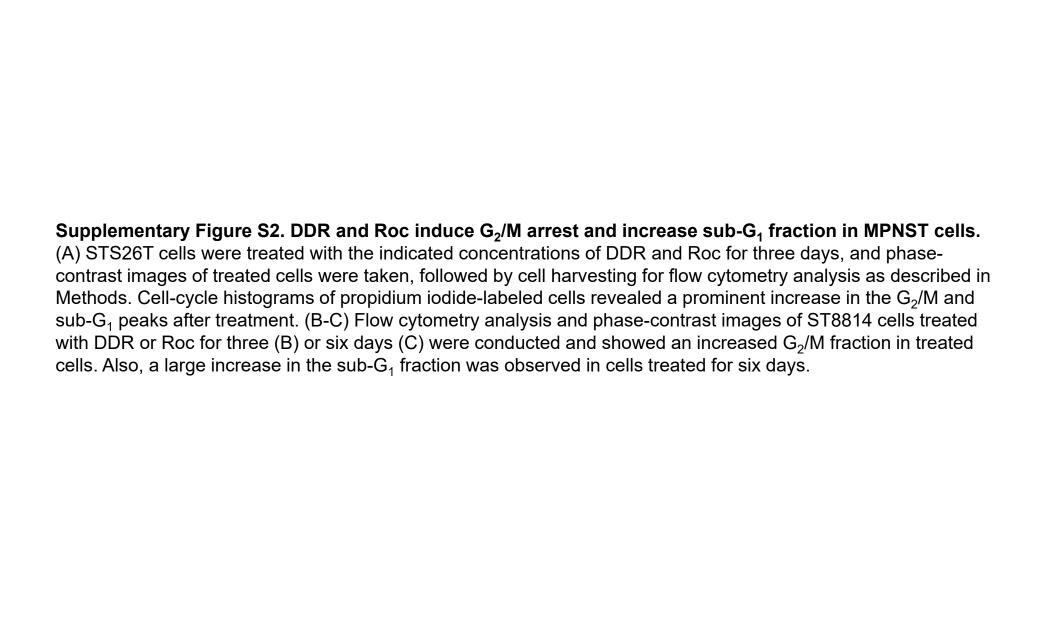


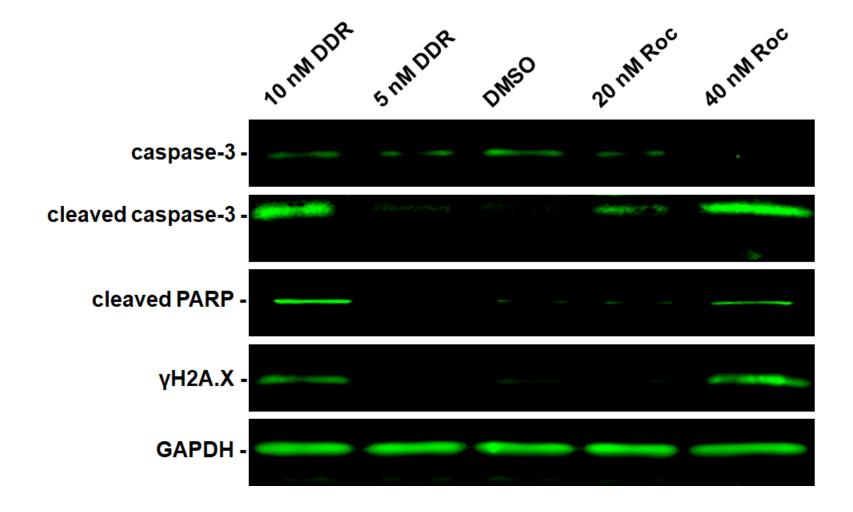
Supplementary Figure S1. Dose-response growth inhibition curves of DDR and Roc in MPNST cells. NF1-expressing STS26T (A) and T265 (B) (blue lines) and NF1-deficient ST8814 (A) and S462 (B) (red lines) MPNST cells were treated with various concentrations of DDR or Roc, followed by determination of cell proliferation as described in Methods. Experiments were performed in six replicates and were repeated three times. Data shown are the mean of replicates from one representative experiment for each cell line and compound. The graph inset shows the mean IC_{50} values derived from three independent experiments.



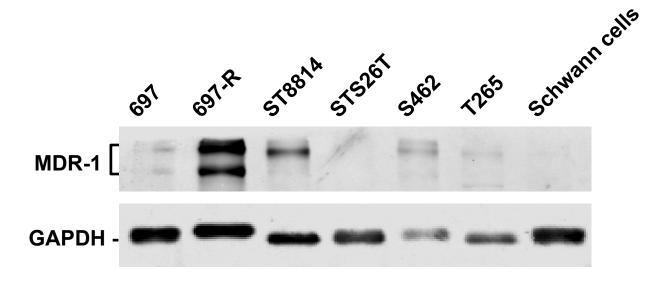




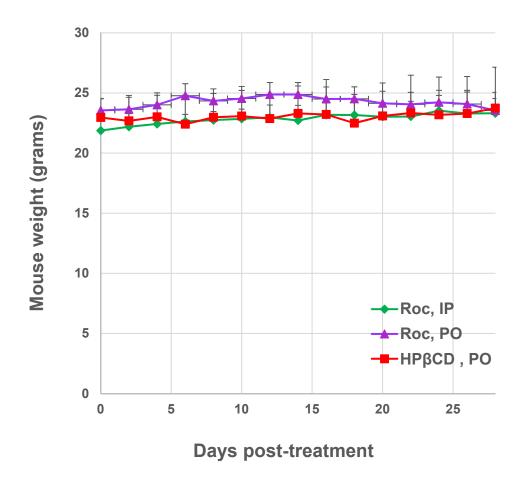




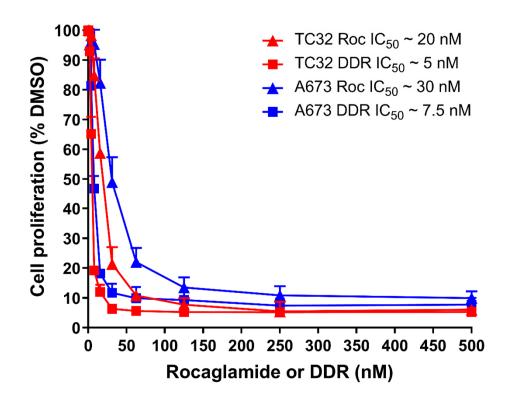
Supplementary Figure S3. DDR and Roc increase caspase-3 and PARP cleavage and elevate the levels of γ H2A.X in *NF1*-deficient ST8814 cells. Protein lysates from ST8814 cells treated for 4 days with 1- or 2-IC₅₀ of DDR or Roc were analyzed by Western blots for full-length and cleaved caspase-3, cleaved PARP, γ H2A.X, and GAPDH as a loading control.



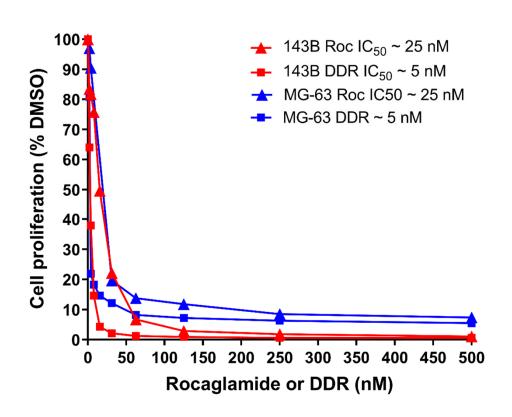
Supplementary Figure S4. Expression of the MDR1/Pgp protein in 697 and 697-R leukemic cells, various MPNST cell lines (ST8814, STS26T, S462, and T265), and primary human Schwann cells. Western blot analysis was conducted as described in Methods. GAPDH was used as a loading control.

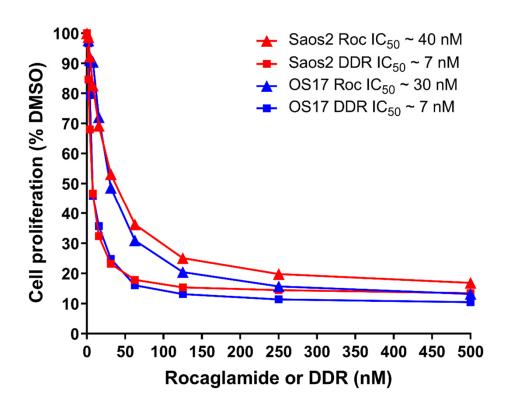


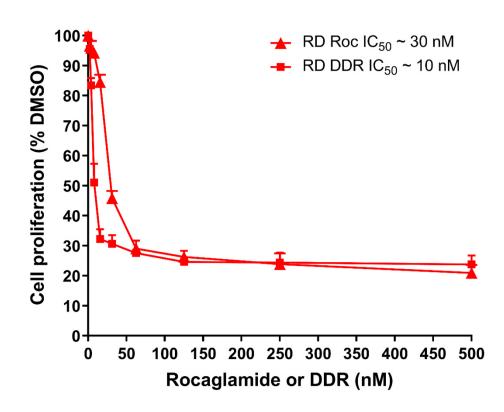
Supplementary Figure S5. Treatment with Roc did not significantly affect body weight, compared with vehicle-treated mice. ST8814-Luc MPNST-bearing NSG mice (n=10/group) were treated with Roc at 4mg/kg by IP, 1.2mg/kg by PO, or HPβCD vehicle every other day for four weeks. Mouse weights were measured every other day. Shown are the mean + standard deviation for each group of mice.

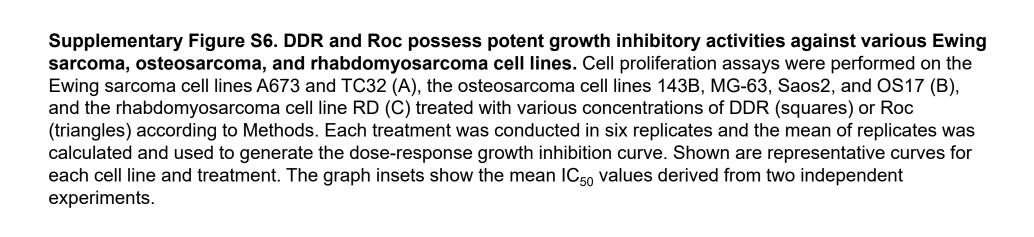


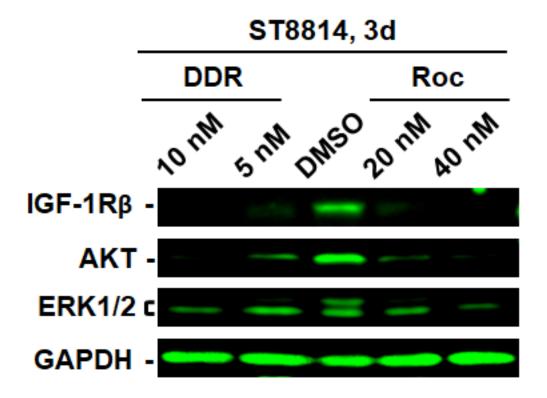
Supplementary Fig. S6B











Supplementary Figure S7. DDR and Roc decrease the expression of IGF-1R, AKT and ERKs in MPNST cells. Protein lysates prepared from ST8814 cells treated for 3 days with 1- or $2-IC_{50}$ of DDR or Roc were analyzed by Western blots as described in Methods. GAPDH served as a loading control.