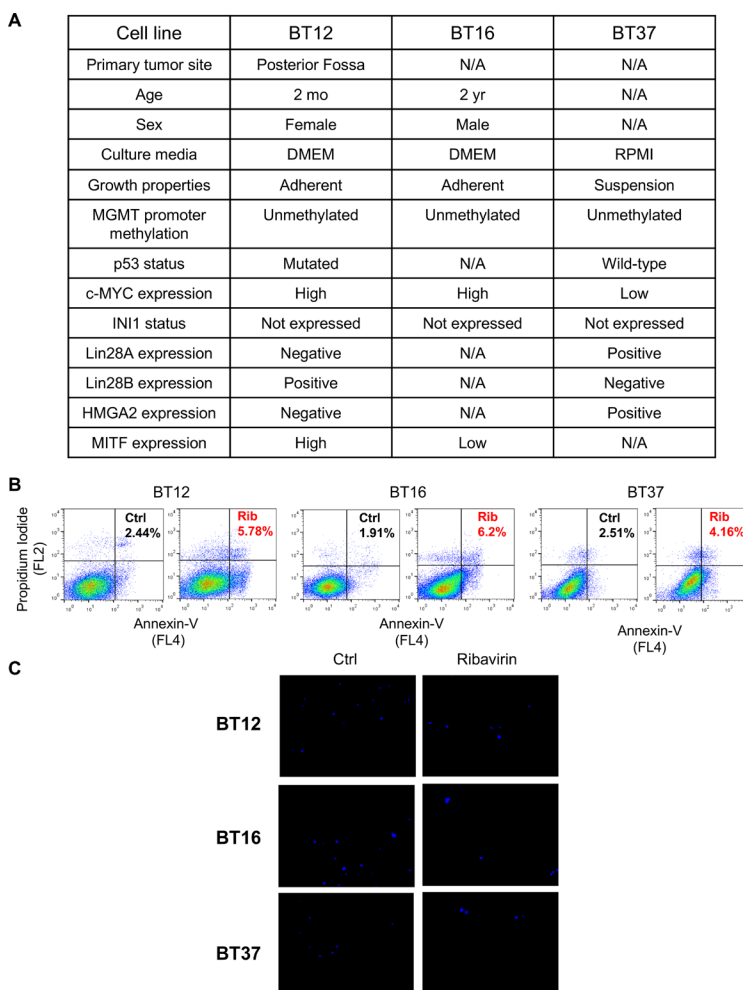
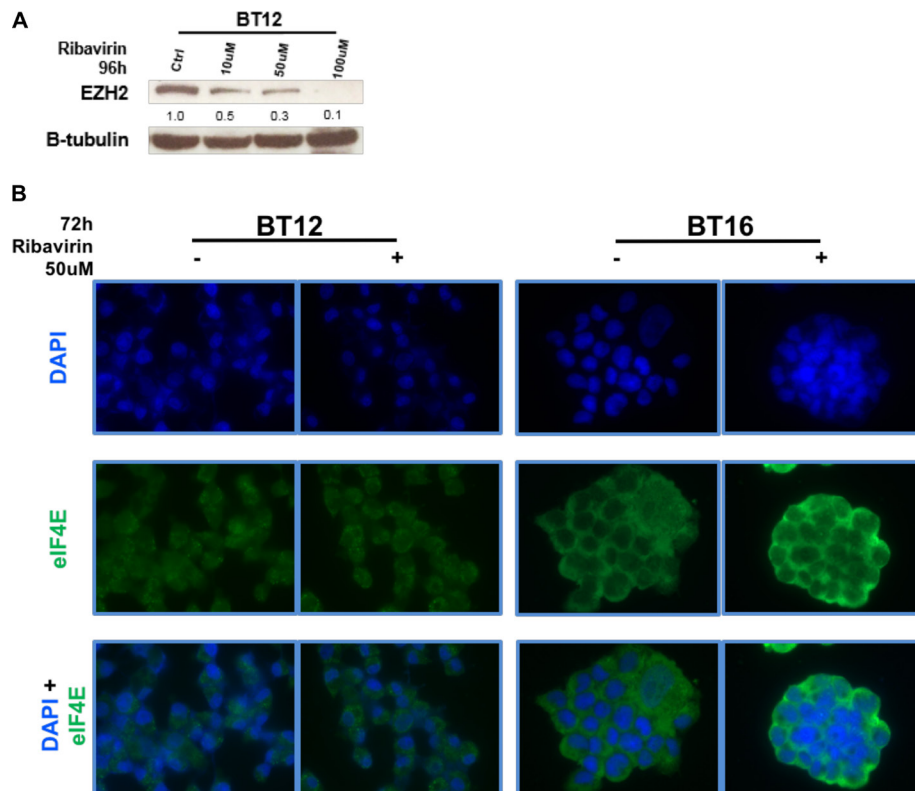


Ribavirin as a potential therapeutic for atypical teratoid/ rhabdoid tumors

SUPPLEMENTARY MATERIALS



Supplementary Figure 1: AT/RT cell line characteristics and ribavirin effects on AT/RT cell death and invasion. (A) Table outlining core features and characteristics of the AT/RT cell lines BT12, BT16, and BT37 used in the study. (B) Representative flow cytometry plots of Annexin-V/Propidium Iodide-stained BT12, BT16, and BT37 cells treated with ribavirin (50 μ M) or vehicle control for 72hrs. (C) Additional representative photographs of Boyden chamber assay. Invasion of control cells (Ctrl) and ribavirin-treated cells (50 μ M) was assessed using a Boyden chamber assay. Panels show representative photographs taken after 16 hrs. Invading cell number was significantly decreased for BT12 and BT16 ribavirin-treated cells compared to vehicle-treated control cells at 16 hrs ($*p < 0.05$, $n = 3$).



Supplementary Figure 2: EZH2 expression in BT12 cells and eIF4E subcellular localization in BT12 and BT16 cells following ribavirin treatment. (A) Western blot analyses of EZH2 expression in BT12 cells after 96hrs of varying doses (10 μ M, 50 μ M, and 100 μ M) of ribavirin treatment. Ribavirin treatment leads to a dose-dependent decrease in EZH2 expression. (B) Immunofluorescence experiments for eIF4E were performed to determine its subcellular localization in BT12 and BT16 cells after 72 hrs of treatment with ribavirin (50 μ M). Overall, DAPI and eIF4E co-staining reveal no difference in eIF4E localization in ribavirin or vehicle-treated cells. eIF4E was found to be mainly cytoplasmic in both control and ribavirin-treated samples.