

Supplementary Materials: Replacement of miR-155 Elicits Tumor Suppressive Activity and Antagonizes Bortezomib Resistance in Multiple Myeloma

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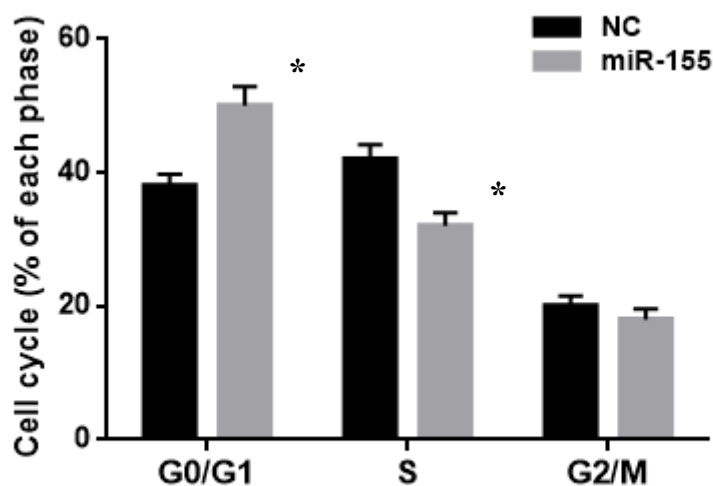


Figure S1. MiR-155 overexpression in MM cells impairs the cell cycle. RPMI-8226 cells were transfected with 100nM of miR-155 mimics or scrambled control oligonucleotides (NC), and cell cycle was then evaluated by PI staining and FACS analysis as reported in Materials and Methods. * $p < 0.05$.

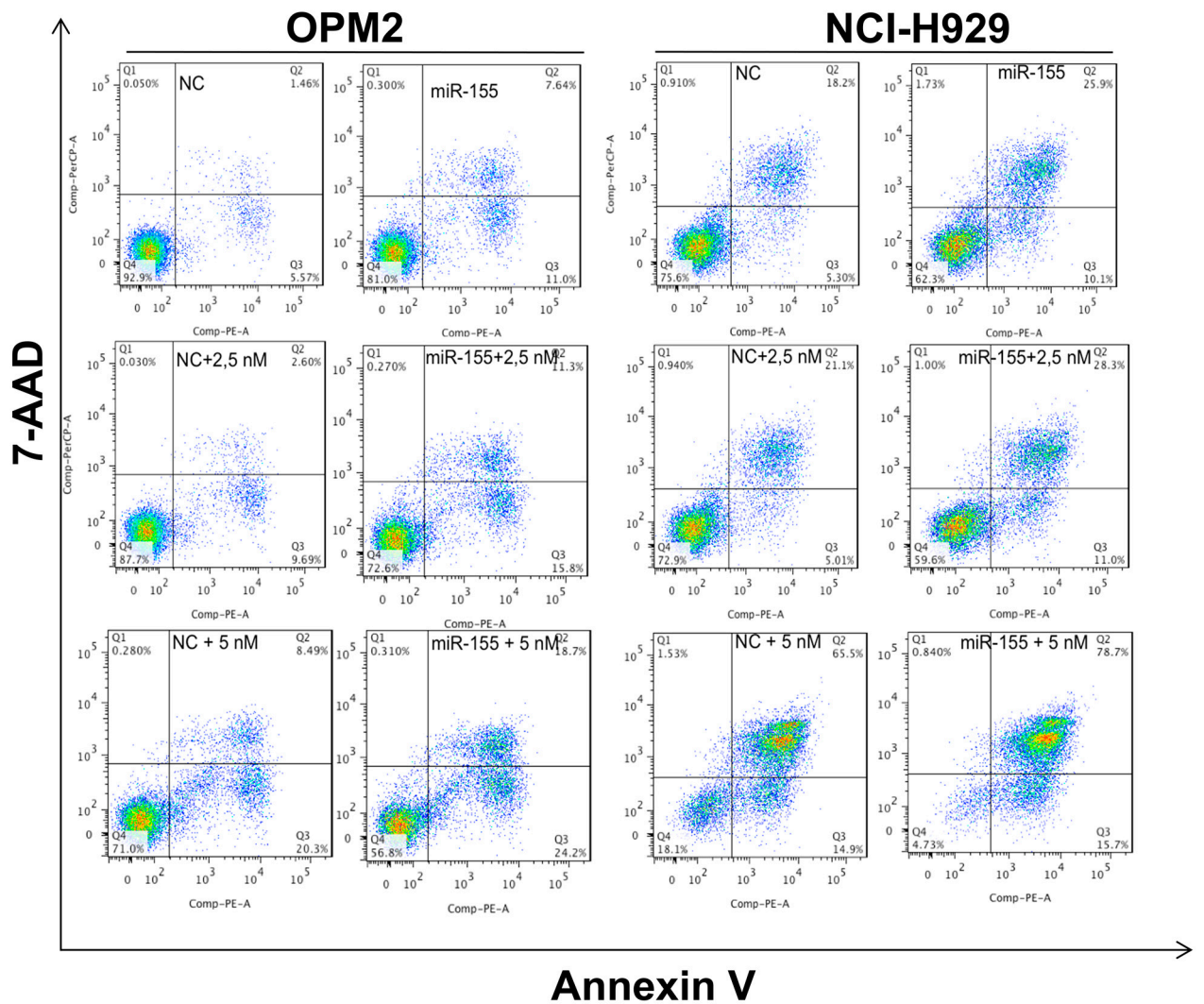


Figure 2. MiR-155 overexpression triggers apoptosis of MM cells. OPM2 and NCI-H929 were transfected with 100nM of synthetic miR-155 or scrambled oligonucleotides (NC), and then treated with different doses of bortezomib for 48 hours, as indicated in each plot. Annexin V/7AAD staining and FACS analysis were then performed. A representative experiment is reported.

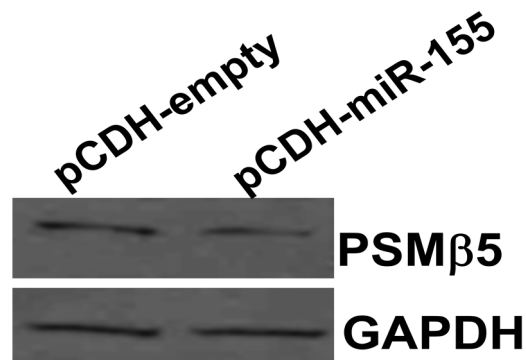


Figure 3. MiR-155 overexpression reduces PSM β 5 expression in MM xenografts. WB analysis of PSM β 5 protein in lysates from OPM2 xenografts expressing pCDH-empty vector or pCDH-miR-155, explanted at day 17. GAPDH was used as loading control.

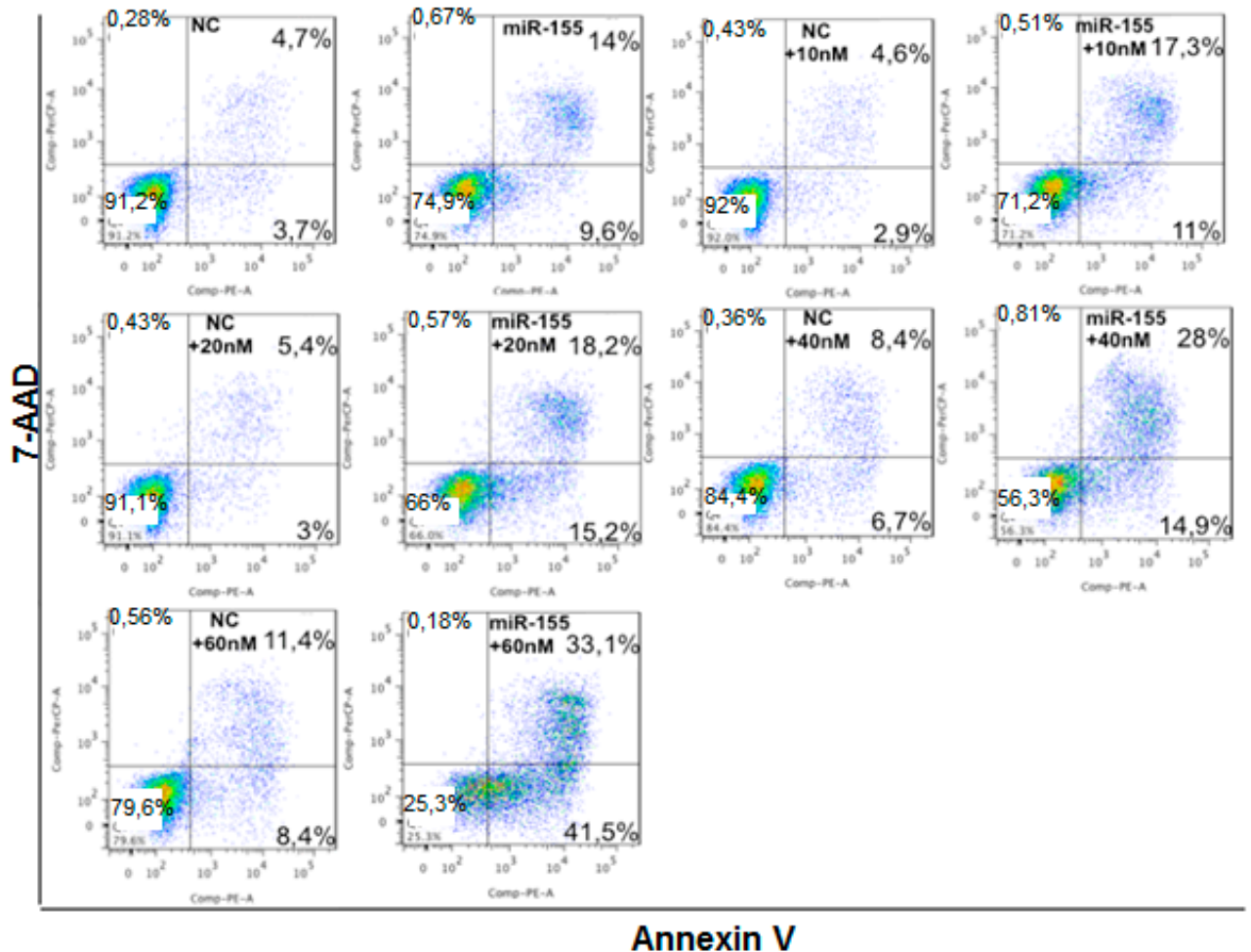


Figure 4. MiR-155 overexpression alleviates bortezomib resistance in MM cells. AMO-bzb cells were transfected with 100nM synthetic miR-155 or scrambled oligonucleotides (NC), and then treated with different doses of bortezomib for 72 hours, as indicated in each plot. Annexin V/7AAD staining and FACS analysis were then performed. A representative experiment is reported.

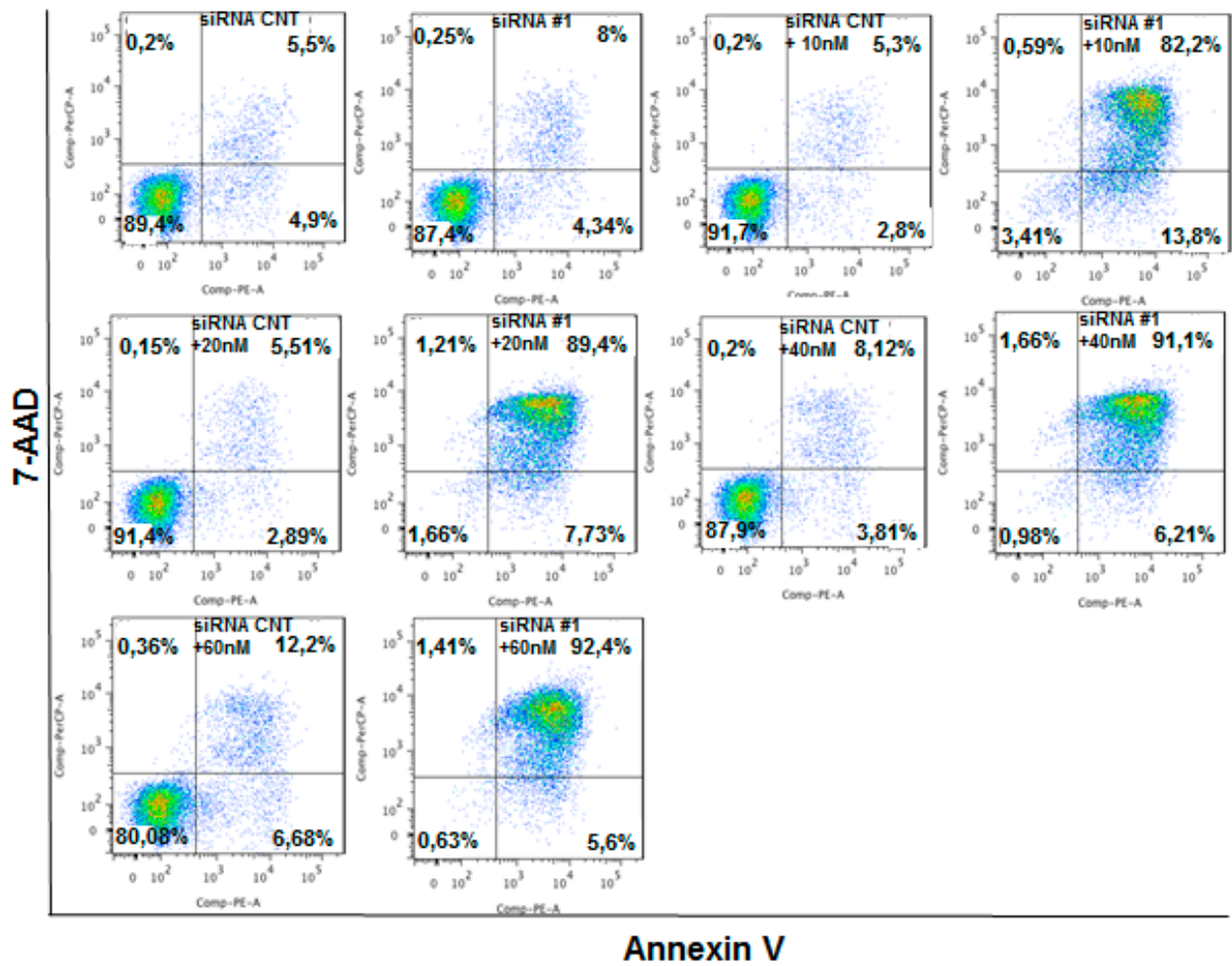


Figure 5. PSMβ5 silencing alleviates bortezomib resistance in MM cells. AMO-bzb cells were transfected with 100nM synthetic PSMβ5 siRNAs (siRNA #1) or siRNA control (siRNA CNT), and then treated with different doses of bortezomib for 72 hours, as indicated in each plot. Annexin V/7AAD staining and FACS analysis were then performed. A representative experiment is reported.