The PI3K/Akt signaling pathway regulates the expression of Hsp70, which critically contributes to Hsp90-chaperone function and tumor cell survival in multiple myeloma.

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Thorsten Stühmer contributed to the construction of siRNA expression vectors, interpreted experimental data, and wrote the manuscript.

Elisabeth Müller performed the experiments with the pharmacological Hsp70 inhibitor.

Claudia Hofmann performed the experiments with the PI3K/110a-specific siRNAs.

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Ralf C. Bargou interpreted and approved the data, wrote and approved the final version of the manuscript.