



Supplementary Fig. S3. HSP70 contributes to chemoresistance in MDA-MB-231 cells both *in vitro* and *in vivo*.

A, B Cytotoxicity assay of MDA-MB-231 ishMint3 cells in the presence of doxorubicin (DXR) or paclitaxel (PTX) with or without VER-155008 (10 μ M) for 24 h at the indicated concentration.

C Immunoblotting of V5-tagged HSP70 in MDA-MB-231 ishMint3 cells transfected with mock or HSP70-V5 expressing lentiviral vectors in the presence of doxycycline (DOX).

D, E Cytotoxicity assay of MDA-MB-231 ishMint3 mock and HSP70-V5 cells in the presence of DXR or PTX with DOX for 24 h at the indicated concentrations.

F, G Immunostaining for cleaved caspase-3 in tumors derived from MDA-MB-231 ishMint3 mock and HSP70-V5 cells following four-day DOX administration, accompanied by a single-shot chemotherapeutic application of DXR and PTX 24 h before sacrifice. (F) representative photos. (G) Quantification of cleaved caspase-3-positive regions in the tumor sections, with n = 18, obtained from six tumors per group. All data are presented as the mean \pm SEM and were analyzed using the Mann-Whitney U-test.

****p < 0.0001. NS: not significant.

For Panels **A, B, D, and E**, data are presented as the mean \pm SD (n = 3) and analyzed using the two-sided unpaired t-test with Welch's correction. *p < 0.05, **p < 0.01.