A A549 Representative Example

Hourly Growth Rate

Vehicle, ABT263, Eto, Eto+ABT263

B MDA-MB-231 Representative Example

Hourly Growth Rate

Vehicle, ABT-263, Dox, Dox + ABT263

C A549 Single Cell Size

Median Single Cell Mass (pg)

Trial #1, Trial #2, Trial #3, 95% CI

Vehicle, ABT263, Eto, C₁₂FDG High, Top 10% (Growing), Bottom 10% (Dying)

Eto+ABT263

D MDA-MB-231 Single Cell Size

Median Single Cell Mass (pg)

Vehicle, ABT263, Dox, C₁₂FDG-High, Top 10% (Growing), Bottom 10% (Dying)

Dox+ABT263

Figure. S3. Cells that escape ABT-263 effects are unlike typical senescent cells. (A) A549 and MDA-MB-231 cells were exposed to four conditions: vehicle, ABT-263 only, Eto or Dox, or Eto or Dox with sequential ABT-263. All conditions were monitored by HSLCI from the start of treatment with ABT-263 (time 0) to 14 hours. Individual dots in the underlying scatter plot represent the mass accumulation rates of single cells 0-14 hours post ABT-263 treatment. **(B)** MDA-MB-231 cells that were treated with vehicle, ABT-263, Dox, or Dox followed by ABT-263 were monitored by HSLCI. **(C)** The median starting mass for A549 cells that escaped ABT-263 effects (Top 10%, upper black box in A), those cells most effect by ABT-263 (Bottom 10%, lower black box in A), control, and separately treated and sorted C12FDG-high cells was determined to further characterize each group**. (D)** The median starting mass for MDA-MB-231 cells that escaped ABT-263 effects (Top 10%, upper black box in B), those cells most effect by ABT-263 (Bottom 10%, lower black box in B), control, and separately treated and sorted C12FDG-high cells were determined to further characterize each group. For both C and D, it should be noted that each experimental replicate is shown separately as previous experiments have shown variability in median cell size due to passage number. Each replicate is shown as the mean +/- SD for n=1,000 cell clusters. Each group was compared pairwise to the control group using Mood's median test. * $p \leq 0.05$