Extracellular control of intracellular drug release for enhanced safety of anti-cancer chemotherapy

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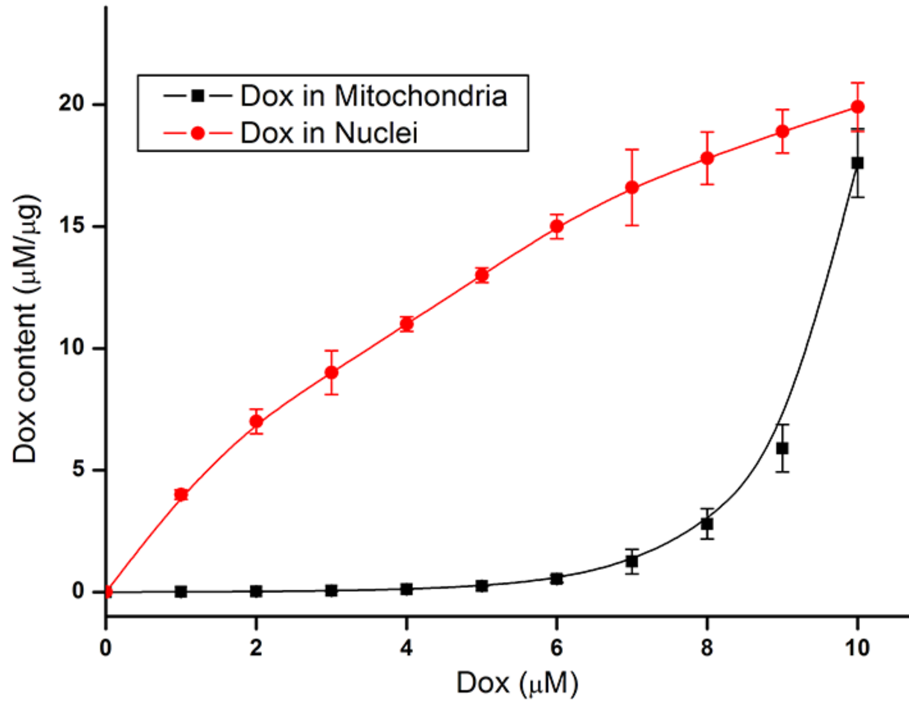

Figure S1: Mitochondria and nucleus were separated from mouse primary myocardial cells and were incubated with Dox of different concentration solved in PBS at 37 ^{o}C for 30 min. Dox contents in mitochondria and nucleus were then quantified. The experiments were triplicated and the results were mean ± SE.

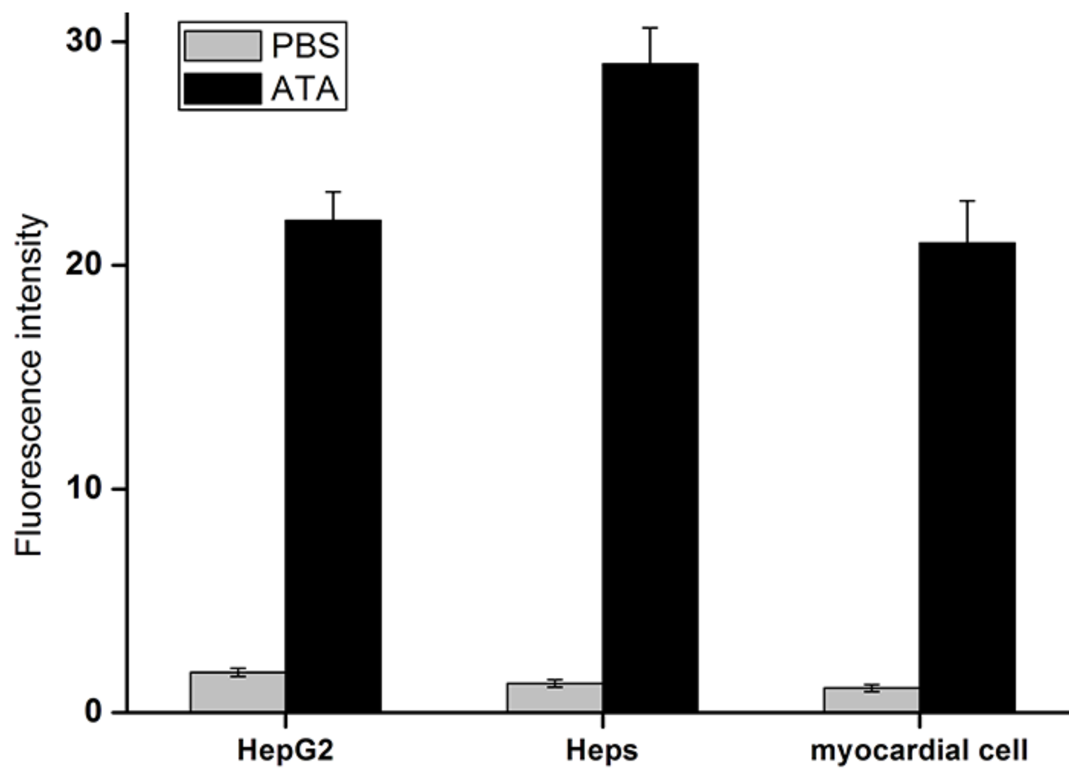

Figure S2: HepG2, Heps and mouse primary myocardial cells (1×10^6) were incubated with 1 μM ATA in PBS at 37 ^oC for 30 min. After removal of extracellular ATA, cell lysates were obtained and centrifuged. The supernatants were diluted into 100 μL PBS for examination of ATA fluorescence intensity (Exc: 220 nm, Emi: 409 nm). The experiments were triplicated and the results are expressed as mean ± SE.

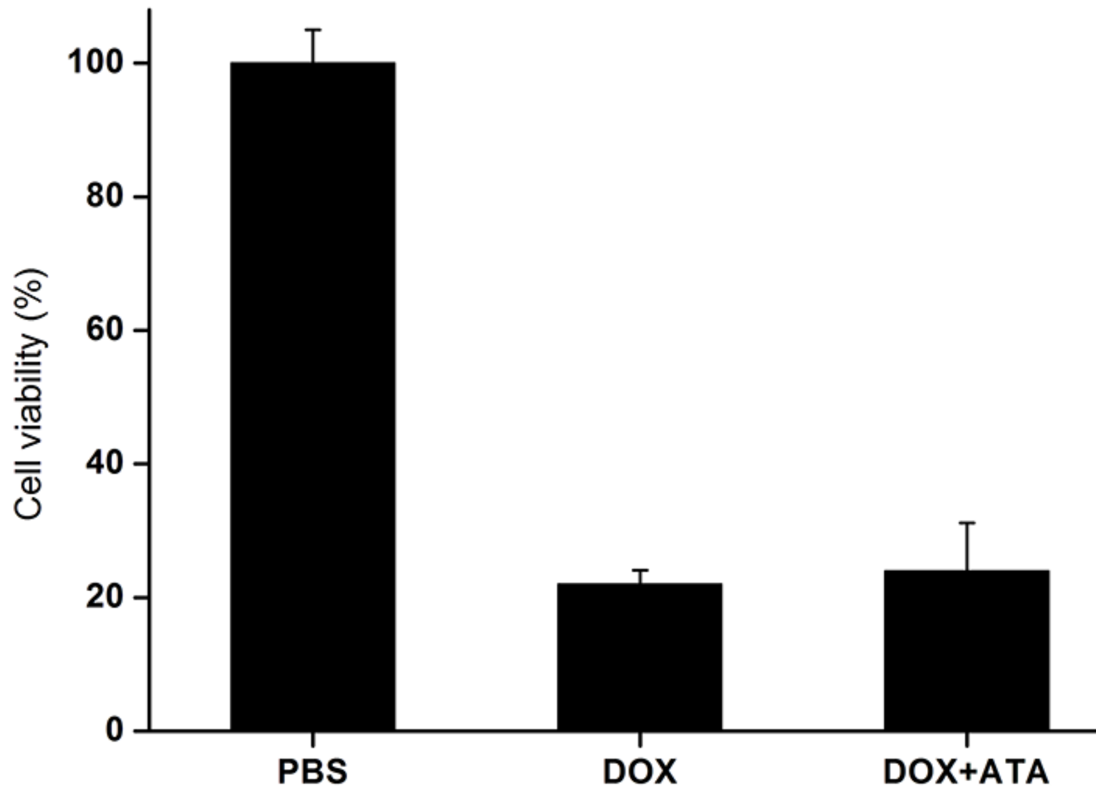

Figure S3: HepG2 cell cultures (1× 10^6 per well) were incubated with 0.2 μg/ml Dox with or without 1 μM ATA for 12 hours before the cell viability were evaluated. The experiments were triplicated and the results are expressed as mean ± SE.