



Supplemental Figure 4

ADT by dietary conditions and rhA treatment leads to comparable 3-D growth arrest. ADT causes spheroid growth delay if combined with single dose irradiation. Synergistic effects are implicated at doses ≥ 12.5 Gy and ≥ 10 Gy in p53-knockdown and p53-wt GBM cells, respectively.

(A) Average volume (\pm SD) of U87-MG-shp53 spheroids before (initial) and after 5 and 10 days of ADT achieved by either arginine-free dietary medium (-Arg) or treatment with recombinant human arginase (+rhA) in the absence or presence of citrulline (Cit) ($n \geq 8$).

(B) Volume growth kinetics of U87-MG-shp53 and U87-MG-shLuc spheroids upon combined ADT (5 days) and up to 12.5 Gy and 10 Gy single dose irradiation, respectively. Control spheroids and spheroids under ADT were irradiated at similar size (360-400 μm), i.e. irradiation of controls was performed at day 4 in culture and of arginine-deprived spheroids after 5 days of ADT ($n \geq 29$).