

Supplemental Figure 1: KD combined with hypo-fractionated radiation is well-tolerated in mice with H292 and A549 xenografts: H292 and A549 xenografts were grown in nude mice and treated as in Figure 3; with KD for 2 days prior to initial radiation dose and 2 days following the final radiation dose for a total of 7 days. All treatments were well tolerated as demonstrated by the lack of weight loss during and following treatment. (A) Represents average weights of H292 xenograft bearing mice and (B) average weights of A549 xenograft bearing mice. Errors are omitted for clarity.

Supplemental Figure 2: The addition of ketones to culture media does not significantly sensitize H292 or A549 cells to single doses of radiation. H292 (A) and A549 (B) lung cancer cells in exponential growth were exposed to low glucose (70 mg/mL) containing complete media +/- ketones as described in the Methods section for 24 hours. Cells were then irradiated with 0.5 Gy, 1 Gy, 2 Gy, 3 Gy or 4 Gy followed by clonogenic survival assay. Colony counts are normalized to unirradiated control cells. Errors represent \pm 1SD, $N \geq 5$ replicates done in at least 3 different experiments at each radiation dose.