Supplementary Figure 6. Inhibition of autophagy via a novel small molecule autophagy inhibitor sensitizes PDAC cells to radiation therapy in vivo. MiaPaca-2 and BxPC3 cells were implanted on the thighs and backs of NSG mice. Mice received vehicle (PBS), HCQ (60mg/kg) or EAD1 (30mg/kg) intraperitoneally and the tumors were irradiated with a single dose of 4 Gy or 8 Gy. (A) The mice were weighed daily to assess for toxicity. (B) Tumor volumes were measured daily and normalized to the day of irradiation. Growth curves of individual tumors from the MiaPaca-2 model were plotted. Gray shaded area under the dotted line = initial tumor volume. (C) The difference in tumor volumes on the last day of experiment among the different treatment groups was assessed via pairwise two-sample t-test, addressing multiple testing issues via the Benjamini-Hochberg procedure. As an alternative approach, ANOVA test was carried out to assess the differences in tumor volumes. Following up a significant result from ANOVA test, which indicates some difference among treatment groups exists, Tukey’s HSD test as the post-hoc analysis was performed. (D) LC3 immunohistochemistry staining of MiaPaca-2 tumors, 20x, counterstained with Hematoxylin. (E) Quantification of LC3 intensity in different tumor groups. (F) Tumor volumes were measured daily and normalized to the day of irradiation. Growth curves of individual tumors from the BxPC3 model were plotted.