

Supplementary Information

Carbon ions induce autophagy effectively through stimulating the unfolded protein response and subsequent inhibiting Akt phosphorylation in tumor cells

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Supplementary Information: 2 pages, 1 table, 1 figure

Table S1 The parameters of survival curves of SHG44 cells treated differently

Treatment	α (Gy ⁻¹)	β (Gy ⁻²)
X-rays	0.37	0.04
30 keV/ μ m carbon ions	0.61	-
75 keV/ μ m carbon ions	0.99	-
75 keV/ μ m carbon ions + CQ	1.24	-
75 keV/ μ m carbon ions + rapamycin	0.88	-

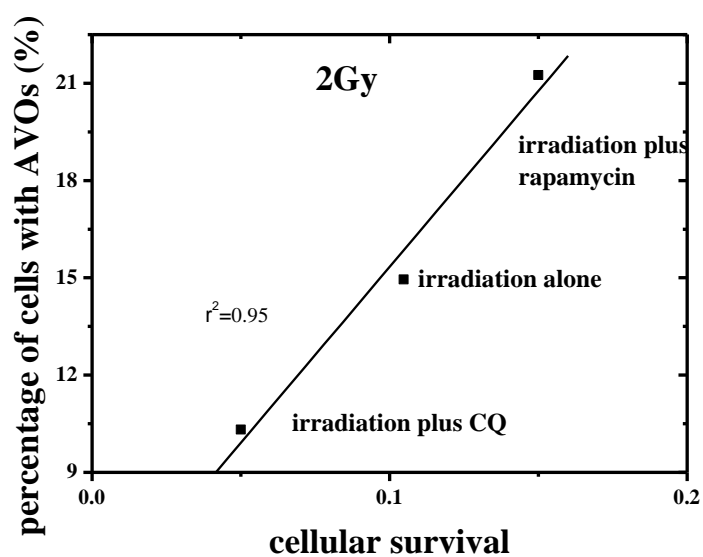


Figure S1 Percentage of SHG44 cells with AVOs 24 h after treatment with 2 Gy of radiation (75 keV/ μ m carbon ions), radiation plus CQ or radiation plus rapamycin as a function of the survival fraction. The data were fitted using the least-squares method.