Figure S1. Effects of Poly(I:C) to induce cell death in A549 cells. (A) A549 cells were cultured for 24, 48 and 72 h in the presence of 250 ng/ml Poly(I:C). After culturing, the cells were harvested for cell death assay using annexin V/PI staining. Representative cytograms of annexin V/PI staining are shown. The inset numbers indicate the fractions of annexin V+/PI− or annexin V+/PI+ cells. (B) A549 cells were incubated with Poly(I:C). After incubation for 1 h, the cells were irradiated with 4 Gy. After culturing for 24, 48 and 72 h, the cells were harvested for cell death assay using annexin V/PI staining. The results are presented as the net increase in the fraction of annexin V+ cells (the sum of annexin V+/PI− cells and annexin V+/PI+ cells) by 4 Gy. Data are mean ± SD of three independent experiments. **p < 0.01 versus control.
Figure S2. Effects of Mfn1-knockdown on IR-induced cell death in A549 cells. (A) A549 cells transfected with control or Mfn1 siRNA were harvested, and the Mfn1 protein expression was analyzed by western blotting. Representative images of immunoblots are shown. Actin was used as a loading control. The relative values of Mfn1/actin ratio are presented. (B) Mfn1-knockdown A549 cells were treated with 4 Gy. After culturing for 72 h, the cells were harvested for cell death analysis using annexin V-FITC/PI staining. Representative cytograms of annexin V/PI staining are shown. The inset numbers indicate the fractions of annexin V+/PI- or annexin V+/PI+ cells.
Figure S3. Mitochondrial morphology of DAP3-knockdown A549 cells. A549 cells transfected with control or DAP3 siRNA were cultured for 48 h and harvested for mitochondrial morphology analysis. Scale bar = 20 μm.