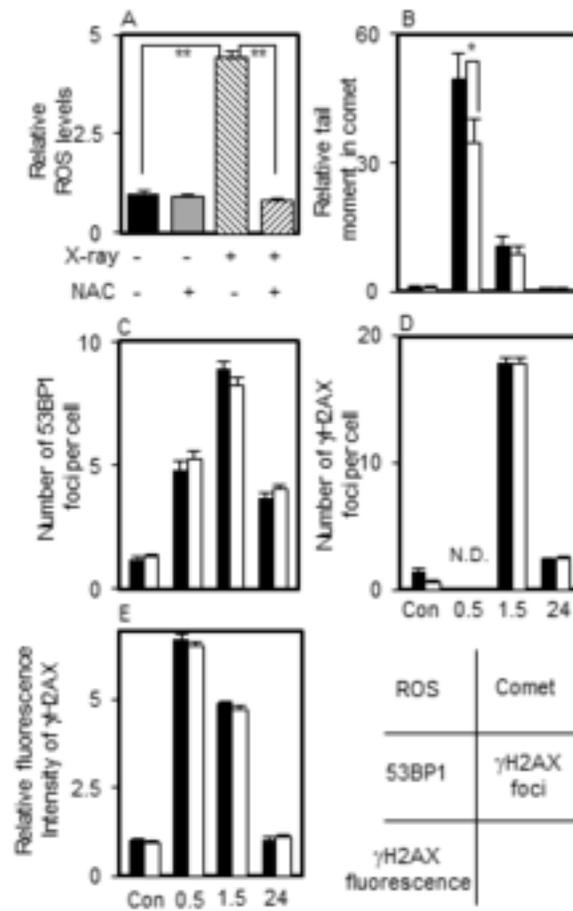
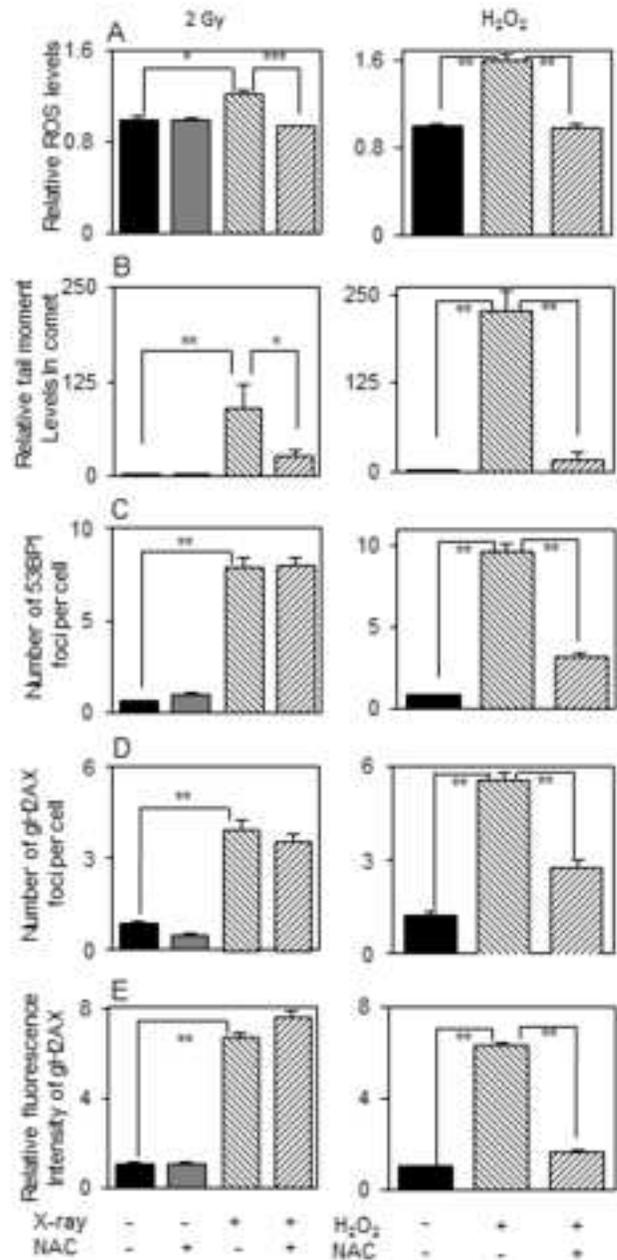


Supplementary Fig. 1. Photographs of gH2AX foci in control cells and cells 0.5 and 1.5 h after exposure to 5 Gy radiation.



Supplementary Fig. 2. The time-course of the effect of 4 mM NAC on intracellular ROS levels (A) and DSBs determined by the neutral comet assay (B) and 53BP1/γH2AX staining (C to E) from 0.5 to 24 h after 5 Gy-irradiation. *, $p < 0.05$; **, $p < 0.01$.



Supplementary Fig. 3. The effect of pretreatment with 20 mM NAC on irradiation-(2 Gy) or H₂O₂-induced intracellular ROS levels (A) and DSBs determined by the neutral comet assay (B) and 53BP1/gH2AX staining (C to E) in BJ-hTERT cells. The data were obtained 0.5 h (the comet assay and gH2AX) or 1.5 h (53BP1) after irradiation or 10 min after addition of H₂O₂. *, p<0.05; **, p<0.01.