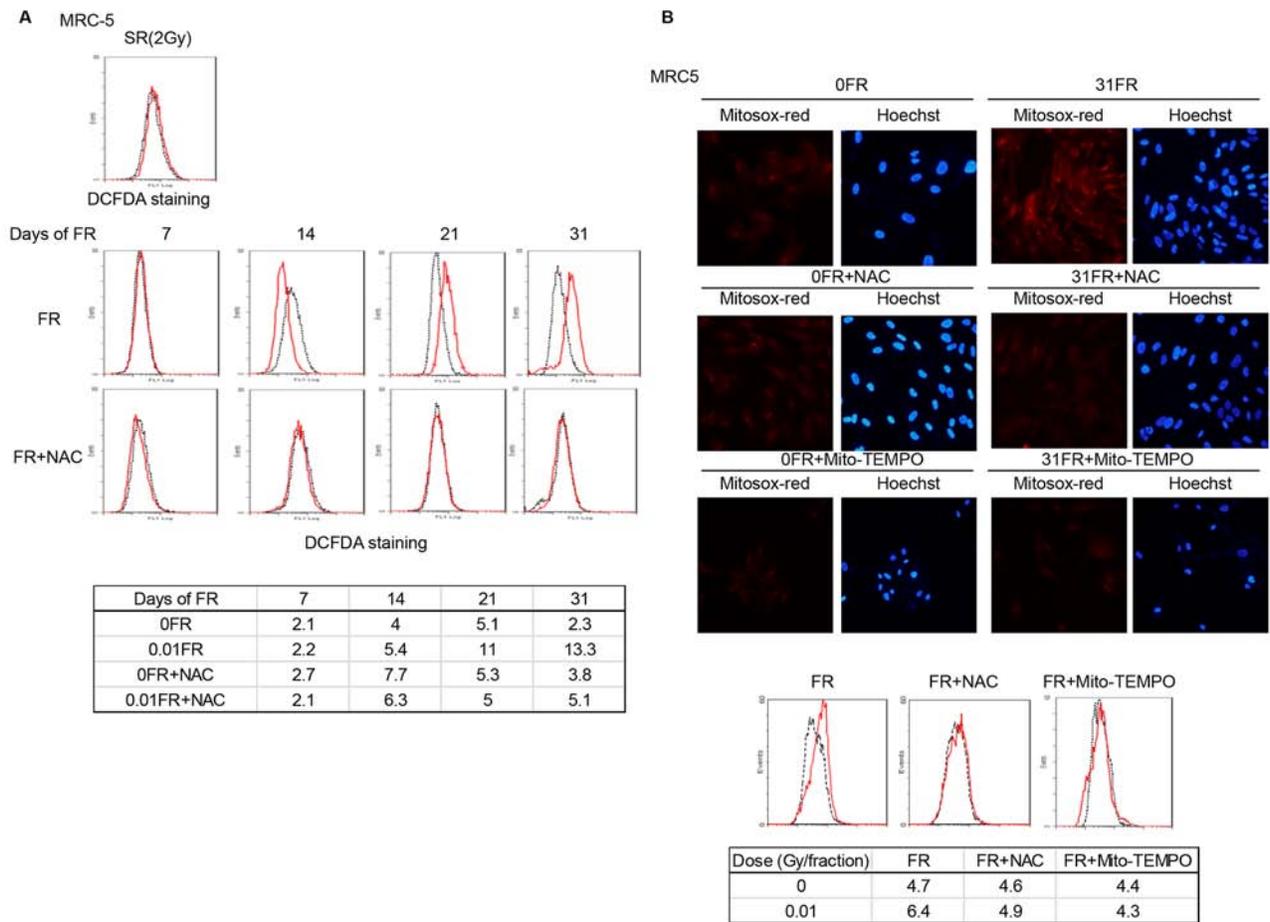
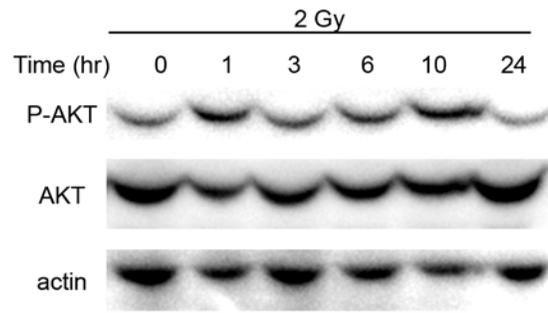


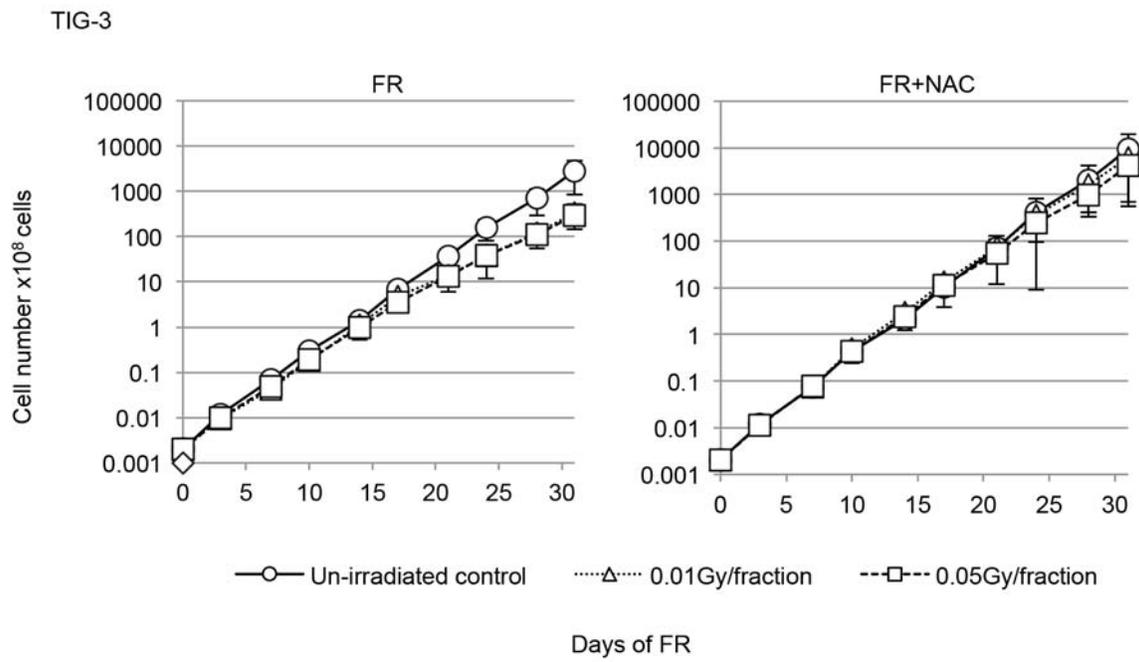
SUPPLEMENTARY FIGURES



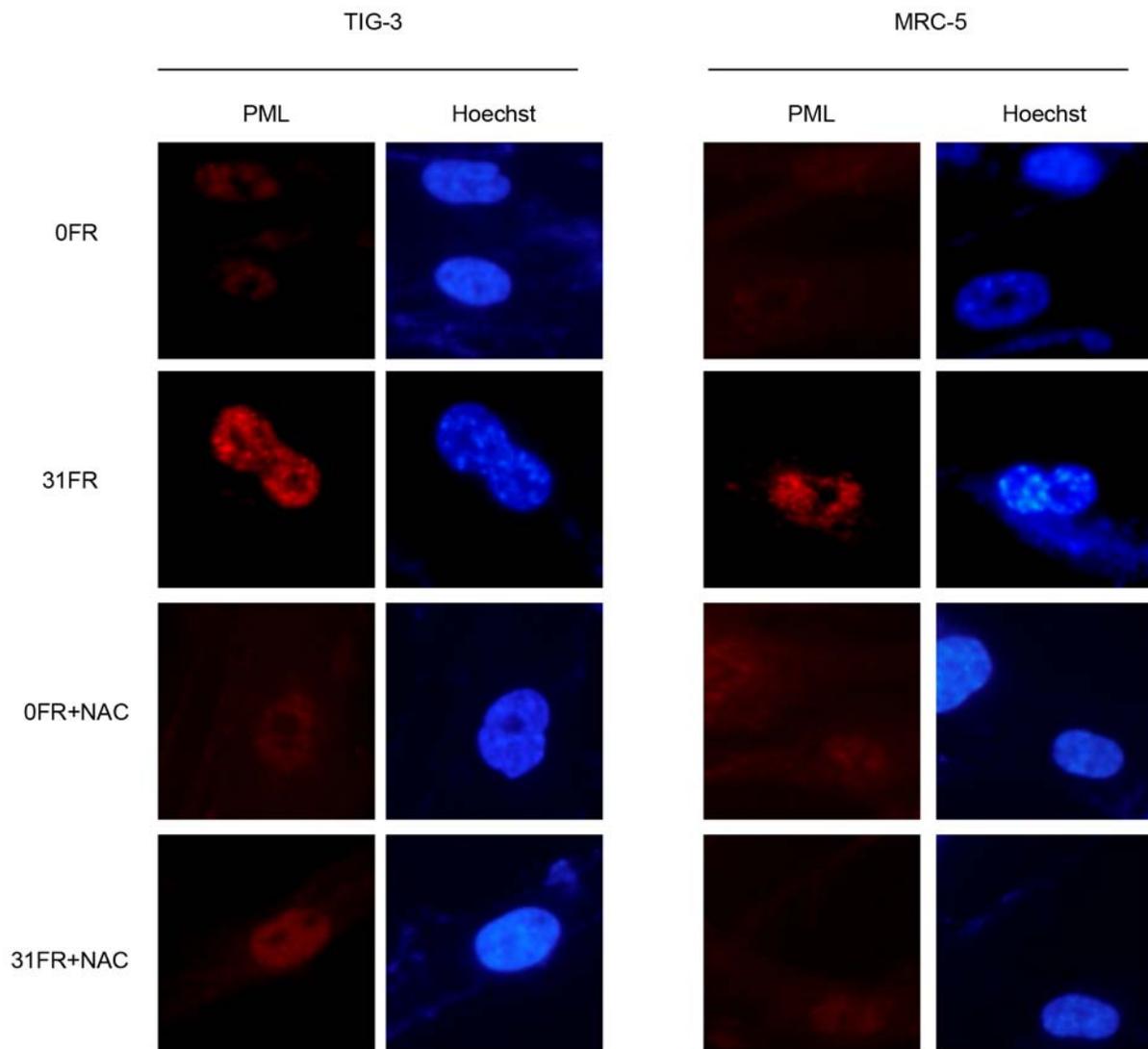
Supplementary Figure S1: ROS generation in 0FR and 31FR MCR-5 cells. **A.** FACS results for DCFDA staining in untreated (dotted black lines) and treated MRC-5 cells (red lines). Mean fluorescence intensity values of DCFDA staining were shown. **B.** Images of Mitox-red staining cells in control 0FR and 31FR cells of TIG-3 with and without NAC or Mito-TEMPO treatment. Mean fluorescence intensity values of Mitox-red staining were shown.



Supplementary Figure S2: AKT activation after SR. AKT phosphorylation on Ser473 (P-AKTSer473, active AKT) after 2Gy of SR exposure in MRC-5 cells.



Supplementary Figure S3: Growth retardation of TIG-3 cells after low-dose long-term FR. Cell growth of unirradiated cells (open circles) and cells exposed to 0.01-Gy (open triangles) and 0.05-Gy (open squares) fractions. Growth curves for TIG-3 cells are shown.



Supplementary Figure S4: Induction of PML nuclear bodies after low-dose long-term FR. Immunofluorescence staining with anti-PML antibody was shown in unirradiated control and irradiated 31FR cells of MRC-5 with/without NAC treatment.