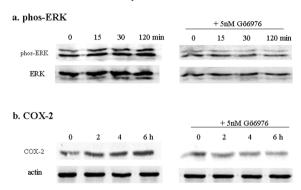
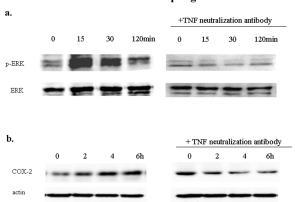
Supplemental Figure S1 Radiation-induced bystander effect inhibited by PKCα inhibitor Gö6976



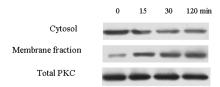
Bystander cells were treated with selective PKC α inhibitor Gö6976. Gö6976 is a potent and selective PKC inhibitor for conventional PKC isoforms PKC α and β 1, with IC50 values of 2.3nM and 6.2 nM , respectively. We therefore used a concentration of 5nM to differentiate the effect caused by PKC α or β 1. Proteins were extracted, separated with SDS-PAGE, transferred to PVDF membrane and probed with different antibodies. Three independent experiments were performed and a representative blot was shown.

Supplemental Figure S2 TNFα neutralization antibody suppressed activation of ERK and up-regulation of COX-2



30ng/ml TNF an entralization antibody was added 1h before cells were subjected to irradiation. Bystander cells were collected at time points indicated and proteins were extracted, separated with SDS-PAGE, transferred to PVDF membrane and probed with ERK or COX-2 antibodies. Three independent experiments were performed and a representative blot was shown.

Supplemental Figure S3 PMA affect cellular distribution of PKCα



Cells were treated with $1\mu M$ PKC activator PMA and collected at different time points. Membrane proteins were extracted, separated with SDS-PAGE, transferred to PVDF membrane and probed with PKC α antibody. Three independent experiments were performed and a representative blot was shown.