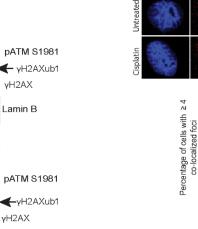


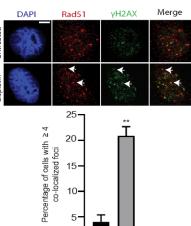
250 kD-

25 kD 🗕

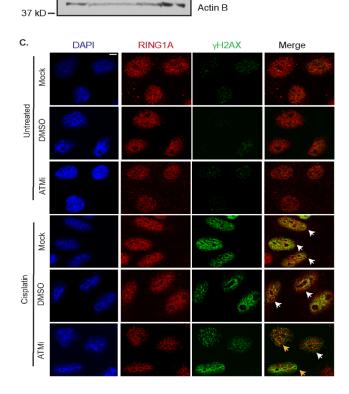
15 kD-

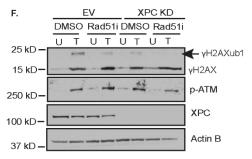


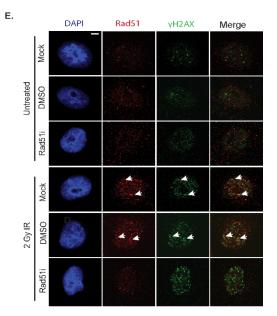
D.

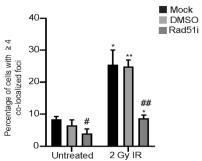












Supplementary Figure S4: Rad51 colocalizes with γ H2AX in response to cisplatin treatment

(A) Kuramochi cells were not pretreated (mock) or pretreated with DMSO or 15 µM ATM inhibitor Ku-55933 for 1 hour and then untreated (U) or treatment with 15 µM cisplatin for 8 hours (T) (N=3). (B) OVCAR5 cells were pretreated with ATM inhibitor as in (A) and then untreated (U) or treated with 6.77 µM carboplatin for 24 hours. Lysates were analyzed by WB (N=2). (C) Representative images of OVCAR5 cells showing RING1A colocalization with γ H2AX with and without ATMi followed by cisplatin treatment. White arrows indicate cells showing colocalization and yellow arrows indicate cells with less or no colocalization. (D) OVCAR5 cells were either untreated or treated with 12 µM cisplatin for 8 hours and then immunofluorescence was performed for γ H2AX (green) and Rad51 (red). White arrows point to examples of γ H2AX and Rad51 foci that colocalize. Graph shows mean percentage of cells with \geq 4 Rad51 and γ H2AX co-localized foci ± SEM. Scale bar = 5 µm. (E) OVCAR5 cells were not pretreated (mock) or pretreated with DMSO or 50 µM Rad51 inhibitor B02 for 2 hours and then untreated (U) or treated with 2 Gy IR. After IR exposure, cells were allowed to recover for 15 minutes at 37°C. Graph shows mean percentage of cells with \geq 4 γ H2AX and Rad51 co-localized foci \pm SEM (N=3). White arrows show examples of γ H2AX and Rad51 foci that colocalize. Scale bar = 5μ M. (F) EV or XPC KD OVCAR5 cells were either pretreated with DMSO or 50 µM Rad51 inhibitor (B02) for 2 hours and then (U) or treated (T) with cisplatin for 8 hours. Lysates were analyzed by WB (N=2). Statistical significance was

calculated using Student's t test. For untreated versus cisplatin or 2 Gy IR treated, P-values * < 0.05, ** <0.005, *** < 0.0005. For Mock or DMSO versus Rad51i P – values # < 0.05, ## < 0.005, ### < 0.0005.