## **Expanded View Figures**

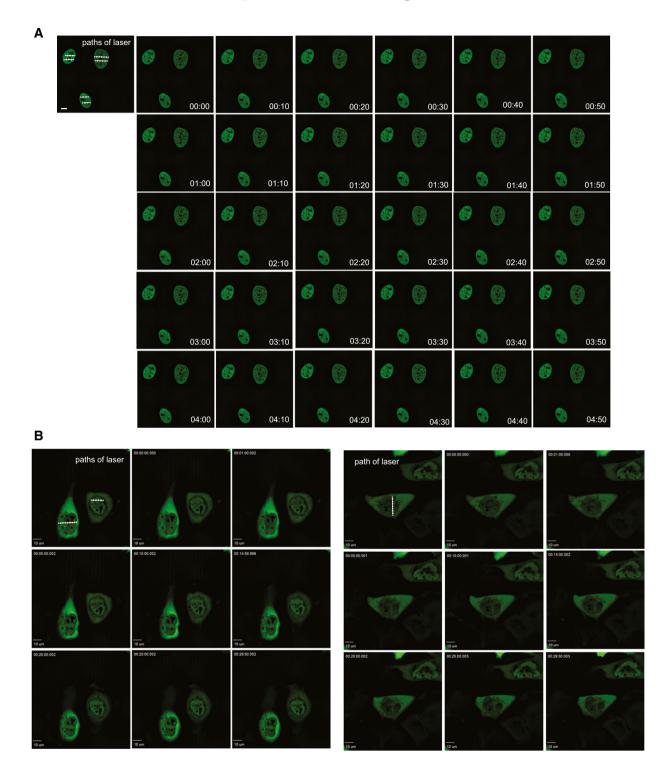


Figure EV1. Histone dynamics at damaged chromatin.

A, B U2OS cells transfected with GFP-tagged H2B (A) or EGFP-tagged RuvBL2 (B) were laser micro-irradiated and monitored by live cell imaging. Representative images taken at indicated time points are shown.

Data information: Scale bars represent 10  $\,\mu m$ .

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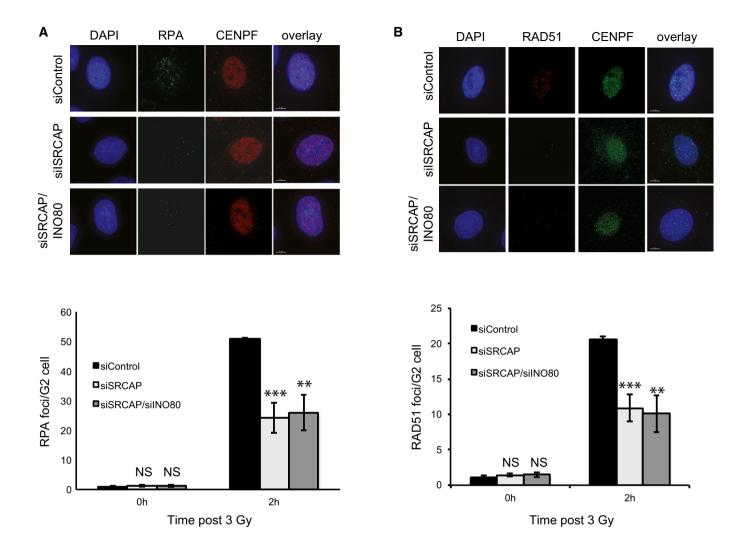


Figure EV2. Cells lacking SRCAP have a resection defect.

- A IR induced RPA focus formation in A549 cells treated with siControl, siSRCAP or siSRCAP/siINO80. Upper panel: representative images. Lower panel: quantification of foci. When compared with control cells at 2 h, siSRCAP and siSRCAP/siINO80 are significantly different (\*\*\*P = 0.0009 and \*\*P = 0.002, respectively).
- B IR induced RAD51 focus formation in cells as in (A). Upper panel: representative images. Lower panel: quantification of foci as in (A). When compared with control cells at 2 h, siSRCAP and siSRCAP/siINO80 are significantly different (\*\*\*P = 0.00098 and \*\*P = 0.00248, respectively).

Data information: Scale bars represent 5  $\mu$ m. Data represent the mean of 3 independent assays  $\pm$  SD. NS, not significant by Student's t-test.

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