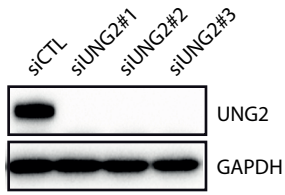
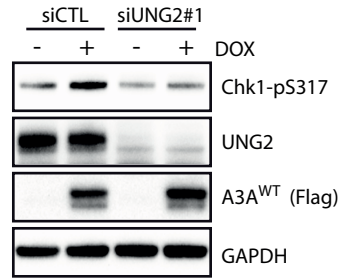


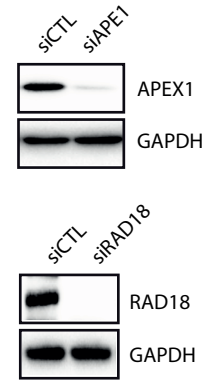
A



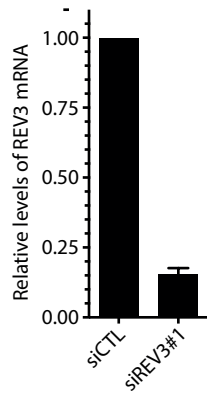
B



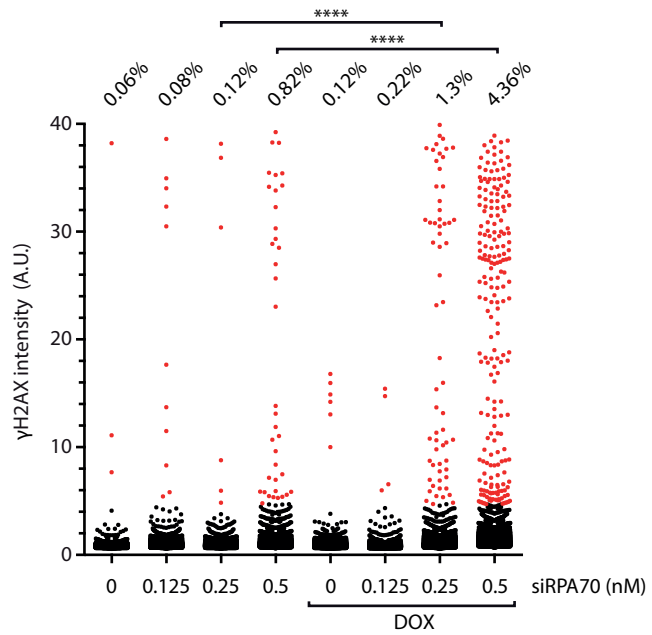
C



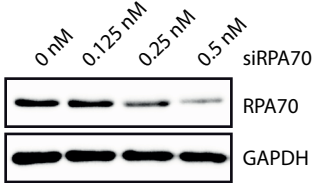
D



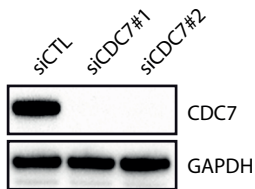
F



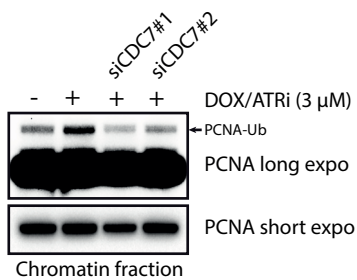
E



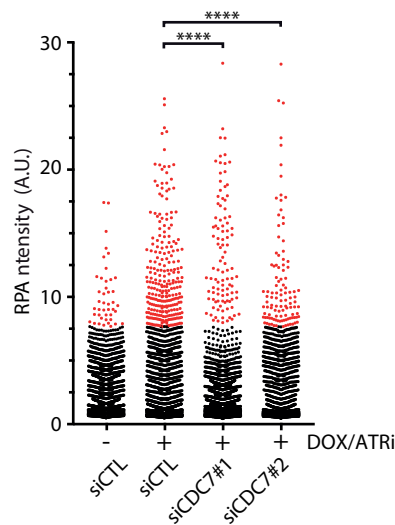
G



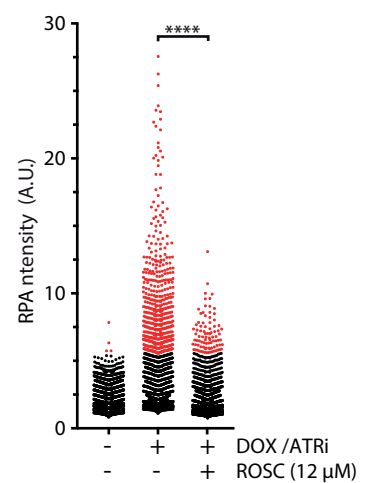
H



I



J



Supplementary Figure S5. Factors affecting the induction of ssDNA and DNA damage by ATRi in APOBEC3A-expressing cells.

A. Knockdown of UNG2 with 3 independent siRNAs. **B.** Inducible A3A^{WT}-expressing cells were transfected with control or UNG2 siRNA, and left uninduced or induced with DOX. Levels of pChk1 were analyzed by Western blot. **C-D.** Knockdown of APE1 and RAD18 was confirmed by Western blot. Knockdown of REV3 was confirmed by RT-qPCR. **E.** Partial knockdown of RPA70 was confirmed by Western blot. **F.** Inducible A3A^{WT}-expressing cells were transfected with increasing amounts of RPA70 siRNA, and left uninduced or induced with DOX. Levels of γ H2AX were quantified. Significance was determined by t-test. ****, $P < 0.0001$. **G.** Knockdown of CDC7 by 2 independent siRNAs was confirmed by Western blot. **H-I.** Inducible A3A^{WT}-expressing cells were transfected with control or CDC7 siRNAs, left uninduced or induced with DOX, and treated with ATRi (3 μ M) for 8 h. Levels of PCNA and mono-ubiquitinated PCNA in the chromatin fractions were analyzed by Western blot in H. Levels of chromatin-bound RPA were quantified in 2,000 cells and shown in I. Significance was determined by t-test. ****, $P < 0.0001$. **J.** Inducible A3A^{WT}-expressing cells were left uninduced or induced with DOX, and treated with ATRi (3 μ M) for 8 h. Roscovitine was used as indicated. Levels of chromatin-bound RPA in 2,000 cells were quantified. Significance was determined by t-test. ****, $P < 0.0001$.