

Supplementary Table S1. Antibodies used in this report

Primary antibodies				
Antibody	Origin	Dilution (WB/IF)	Clone, reference	Manufacturer
β -actin	Mouse monoclonal	1:2000/-	AC15, A5441	Sigma-Aldrich
53BP1	Rabbit polyclonal	-/1:400	NB100-304	Novus Biologicals
Coilin	Mouse monoclonal	-/1:400	sc-56298	Santa Cruz
GST-Tag	Mouse monoclonal	1:2000/-	B14/sc-138	Santa Cruz
Histone H3	Rabbit polyclonal	1:5000/-	9175	Cell Signaling
Histone H2A.X	Rabbit polyclonal	1:1000/-	2595S	Cell Signaling
HA.11-Tag	Mouse monoclonal	1:1000/1:200	16B12, 901514	BioLegend
HA-Tag	Rabbit polyclonal	1:1000/-	H6908	Sigma-Aldrich
Phospho-histone H3 (Thr3ph)	Rabbit polyclonal	1:1000/-	05-746R	Merck-Millipore
Phospho-p53 (Thr18ph)	Rabbit polyclonal	1:1000/-	2529S	Cell Signaling
VRK1	Mouse monoclonal	1:1000/1:200	1B5	(Valbuena et al. 2007)
Secondary antibodies				
Antibody	Fluorochrome	Use, dilution	Reference	Manufacturer
Goat anti-Mouse IgG	Cy3 (Red)	IF, 1:1000	115-165-146	Jackson ImmunoResearch
Goat anti-Mouse IgG	Cy5 (Red)	IF, 1:1000	115-175-166	Jackson ImmunoResearch
Goat anti-Rabbit IgG	Cy2 (Green)	IF, 1:1000	111-225-144	Jackson ImmunoResearch
Goat anti-Mouse IgG	DyLight 680 (Red)	WB, 1:10000	35518	Thermo Fisher Scientific