Supplementary Table 1: List of antibodies and their dilution used in this study

Name	Vendor	Cat. #	IB	IF
MEK5	BD Biosciences	610956	1:500	
ERK5	Cell Signaling Technology	3372S	1:500	
ERK5 (T218/Y220)	Cell Signaling Technology	3371S	1:250	
DNA-PKcs	Abcam	ab70250	1:1000	
DNA-PKcs (S2056)	Abcam	ab18192	1:1000	
DNA-PKcs (T2609)	Abcam	ab18356	1:1000	
ATM	Cell Signaling Technology	2873S	1:1000	
ATM (S1981)	Cell Signaling Technology	13050S	1:1000	
γH2AX	Millipore	05-636		1:500
53BP1	Bethyl Laboratories	A300-272A		1:1000
β-actin	Sigma	A5441	1:10000	
α-tubulin	Sigma	T9026	1:4000	
IB: immunoblotting				
IF: immunofluorescence				