Supplementary Table S1
Primary and secondary antibodies that were used in this study

Antigen	Application	Antibody	Manufacturer	Dilution
53BP1	Western blotting (Fig. 5A and S4C)	1. rabbit-polyclonal 2. goat-anti-rabbit-HRP	Abcam ab21083 Dako P0448	1:1000 1:1000
53BP1	Western blotting (Fig. 5C)	1. mouse-monoclonal	Chemicon International MAB3804	1:500
pol II	Western blotting	1. goat-polyclonal 2. rabbit-anti-goat-HRP	Santa Cruz sc 5943 Dako P0160	1:200 1:1000
HA-tag	Western blotting	1. rabbit-polyclonal	Sigma H6908	1:500
BRCA1	Western blotting	1. rabbit-polyclonal	Upstate 07-434	1:500
actin	Western blotting	1. rabbit-polyclonal	Sigma A2066	1:200
RAD51	Immunofluorescence	1. rabbit-polyclonal 2. goat-anti-rabbit-Alexa568	Santa Cruz sc8349 Molecular Probes A11011	1:500 1:400
53BP1	Immunofluorescence	1. rabbit-polyclonal 2. goat-anti-rabbit-Alexa568	Bethyl A300-272A Molecular Probes A11011	1:4000 1:400
γH2AX	Immunofluorescence	1. rabbit-polyclonal 2. goat-anti-rabbit-Alexa568	Cell Signaling 2577 Molecular Probes A11011	1:200 1:400
γH2AX	Immunohistochemistry	1. rabbit-polyclonal 2. goat-anti-rabbit-biotin	Cell Signaling 2577 Dako E043201	1:50 1:800
53BP1	Immunohistochemistry	1. rabbit-polyclonal 2. goat-anti-rabbit-biotin	Bethyl A300-272A Dako E043201	1:1000 1:800
vimentin	Immunohistochemistry	1. guinea pig-monoclonal 2. goat-anti-guinea pig-biotin	Research Diagnostics Inc. RDI Jackson ImmunoResearch Inc.	1:400 1:500

Supplementary Table S2
Overview of all primers that were used in this study

	Sequence (5' → 3')	Direction	Target	Application
1	GGCACCGGTGTGTGAGGAAG	Forward	exon 20	PCR cDNA KB1PM5
2	GGCAGCAGAGTTTGTGAGTC	Forward	exon 24	PCR cDNA KB1PM5
3	TCCAGTGCCTCATTGTTGGGGAGAG	Reverse	exon 28	PCR cDNA KB1PM5
4	CAGAGTTTGTGAGTC CCTGT	Forward	exon 24	sequencing PCR product cDNA KB1PM5
5	CACAAGAATGGGTGATCCAG	Reverse	exon 28	sequencing PCR product cDNA KB1PM5
6	GTCTCCTAATTGCGGACCAG	Forward	exon 26	PCR genomic DNA KB1PM5
7	CTGCCAGTGCCTAGCAAATA	Reverse	intron 24	PCR genomic DNA KB1PM5
8	TGGCATCTGCCTAGTGTCTG	Forward	intron 24	PCR genomic DNA KB1PM5
9	AGATGGTCTTGGTAGGCAGC	Reverse	intron 24	PCR genomic DNA KB1PM5
10	GCAGGACGACCAGGTAGAAA	Forward	exon 12	PCR genomic DNA KB1PM8
11	TCCATAGCTTCTGGGCATTC	Reverse	exon 12	PCR genomic DNA KB1PM8
12	GAAACGGAGGACAGAGGTGA	Forward	exon 12	sequencing PCR product gDNA KB1PM8
13	CTTCTGGGCATTCCTCTTTG	Reverse	exon 12	sequencing PCR product gDNA KB1PM8
14	ACAGGGGCACCGGTGTGTGA	Forward	exon 20	PCR genomic DNA KB1P2
15	CGTGACAGGAGGGAACAGCAGG	Reverse	intron 21	PCR genomic DNA KB1P2
16	CCGCCCACCTTCTCGGACCA	Forward	exon 20	Sequencing PCR product gDNA KB1P2
17	ACAGGAGGGAACAGCAGGCACA	Reverse	intron 21	Sequencing PCR product gDNA KB1P2
18	TGGCATCTGCCTAGTGTCTG	Forward	intron 24	PCR genomic DNA KB1P8
19	AATGCCACTGGCAAGGCACAG	Reverse	exon 26	PCR genomic DNA KB1P8
20	CGTGTGGCTTGTCAAACAGA	Forward	intron 24	Sequencing PCR product gDNA KB1P8
21	CACACTGGCACATTACCCTGCACT	Reverse	intron 25	Sequencing PCR product gDNA KB1P8