

## Supplementary Table I.

List of antibodies used in the study.

Primary antibodies	Source	Clone	Catalogue number
Phospho-CHEK1 (Ser317)	Cell Signaling Technology	D12H3	#12302
Phospho-AKT (Ser473)	Cell Signaling Technology	Polyclonal	#9271
Phospho-mTOR (Ser2448)	Cell Signaling Technology	D9C2	#5536
NF- $\kappa$ B p65	Cell Signaling Technology	D14E12	#8242
Phospho-STAT5 (Tyr694)	Cell Signaling Technology	Polyclonal	#9351
FOXO1	Cell Signaling Technology	C29H4	#2280
FOXO3A	Cell Signaling Technology	75D8	#2947
PUMA	Cell Signaling Technology	D30C10	#12450
Lamin A/C	Cell Signaling Technology	4C11	#4777
Nedd8	Cell Signaling Technology	19E3	#2754
STAT5	Santa Cruz Biotechnology	Polyclonal	sc-836
I $\kappa$ B $\alpha$	Santa Cruz Biotechnology	Polyclonal	sc-371
Phospho-I $\kappa$ B $\alpha$ (Ser32)	Santa Cruz Biotechnology	B-9	sc-8404
C-MYC	Epitomics, Sigma Aldrich	EP121	AC-0116
MCL1	Abcam	Y37	ab32087
NOXA	Imgenex, Novus Biologicals	114C307	NB600-1159
P27	Santa Cruz Biotechnology	C-19	sc-528
CDT1	Cell Signaling Technology	D10F11	#8064
$\gamma$ H2AX (Ser139)	EMD Millipore	JBW301	05-636
$\beta$ -actin	EMD Millipore	C4	MAB1501
Beta-catenin	BD biosciences	14	610154

## Supplementary Table II.

TP53 status cell lines used in this study.

Cell line name	P53 status	Reference/source
SD1	Wildtype	Dhut <i>et al.</i> PMID: 1847983
SUPB15	Wildtype	Zhou <i>et al.</i> PMID: 7888679
BV173	Wildtype	Pegoraro <i>et al.</i> PMID: 6572735
KBM5	Mutant (c. 818G>A)	Sen <i>et al.</i> PMID: 7627932
MOLM-6	Wildtype	Drexler <i>et al.</i> PMID: 10637496
KCL-22	Mutant (frameshift)	Kubonishi & Miyoshi PMID: 6321612
P30-OHKUBO	Wildtype	Hirose <i>et al.</i> PMID: 6983990
NALM-1	Wildtype	Sonta <i>et al.</i> PMID: 302341
K562	Mutant (407 insC p.Q136fsX13)	Law <i>et al.</i> PMID: 8246608
NCI-H929	Wildtype	Gazdar <i>et al.</i> PMID: 2423157
ANBL-6	Mutant (Q331stop)	Moreaux <i>et al.</i> PMID: 21173094
XG-1	Mutant (Y126N)	Moreaux <i>et al.</i> PMID: 21173094
UM-3	Wildtype	Boersma-Vreugdenhil <i>et al.</i> PMID:15257707