

**Table S1. Antibodies used in this study**

Antibody	Antigen	Source	Catalog Number	WB	IF
CENP-A	Rabbit	Cell signaling	#2186S	1/1000	1/300
CENP-A	Mouse	MBL International	D115-3		1/100
Phospho-Histone H3 (Ser10)	Rabbit	Cell signaling	#3377	1/1000	
CCNE1	Mouse	Santa Cruz	#C2510	1/1000	
H3	Rabbit	Novus Biological	NB100-479	1/30000	
Vinculin	Mouse	Sigma	V9131	1/5000	
$\alpha$ -Tubulin	Mouse	Sigma	T9026	1/10000	1/400
LAP2	Mouse	BD Bioscience	611000		1/400
CREST (ACA)	Human	Antibodies Incorporated	15-235		1/6000
Cdk2	Rabbit	Santa Cruz	S00026	1/1000	
FBW7	Rabbit	Bethyl	A301-720A	1/1000	
HA	Mouse	Santa Cruz	7392	1/1000	1/1000
HJURP	Rabbit	Abcam	100800	1/1000	
Phospho-CENP-A(S18)	Rabbit	Cell signaling (custom made)		1/1000	1/100
CENP-B	Rabbit	Abcam	Ab25734	1/1000	1/200
CyclinA2	Rabbit	Santa Cruz	sc751	1/1000	
H2A	Rabbit	Active Motif	39235	1/3000	
CENP-C	Guinea pig	MBL International	PD030		1/1000
Phospho-CENP-A(S68)	Rabbit	<i>Homemade</i>	n/a	1/100(1 $\mu$ g/mL)	1/100(8 $\mu$ g/mL)
GAPDH	Rabbit	Santa Cruz	sc-25778	1/1000	
Ndc80(Hec1)	Mouse	Abcam	ab3613		1/400
SNAP	Rabbit	NEB	P9310S	1/10000	