

Table S1. Antibodies employed for immunofluorescent staining, grouped by staining pattern

Symbol	Name	Antibody	Source	Dilution
Proteins with difference in spindle staining intensity between MII and clone				
AURKB	Aurora B	ab2254	rabbit	1:50
CLTC	Clathrin heavy chain	ab21679	rabbit	1:1000
CSNK1A1	Casein kianse 1 alpha	ab64939	rabbit	1:100
DCTN4	Dynactin p62	sc-12239	goat	1:50
Proteins with no difference in spindle staining intensity between MII and clone				
AURKA	Aurora A	ab13824	mouse	1:200
BIRC5	baculoviral IAP repeat-containing 5	NOVUS NB500-201	rabbit	1:100
CDK1	cyclin-dependent kinase 1, Cdc2	ab18	mouse	1:100
CENPF	centromere protein F	sc-22791	rabbit	1:50
CKAP5	cytoskeleton associated protein 5	LS-B277	rabbit	1:100
KIF1B	kinesin family member 1B	sc-18739	goat	1:50
PLK1	polo-like kinase 1	ab17056	mouse	1:100
PRC1	protein regulator of cytokinesis 1	ab51248	rabbit	1:100
RAN	GTPase Ran	ab31120	rabbit	no dilution
Proteins with no enrichment seen for spindle staining compared to ooplasm in MII stage				
ANAPC7	anaphase promoting complex subunit 7	sc-20987	rabbit	1:50
ARHGEF2	rho/rac guanine nucleotide exchange factor (GEF) 2	cell signaling 4145	rabbit	1:100
CCT2	chaperonin containing Tcp1, subunit 2	sc-13874	goat	1:50
CCT3	chaperonin containing Tcp1, subunit 3	sc-13878	goat	1:50
CCT4	chaperonin containing Tcp1, subunit 4	sc-13880	goat	1:50
CCT6B	chaperonin containing Tcp1, subunit 6b	sc-13896	goat	1:50
CCT7	chaperonin containing Tcp1, subunit 7	sc-13889	goat	1:50
CCT8	chaperonin containing Tcp1, subunit 8	sc-13893	goat	1:50
CDC16	cell division cycle protein 16 homolog	sc-5615	rabbit	1:50
CDC27	cell division cycle protein 27 homolog	BD 610454	mouse	1:50
CDC42	cell division control protein 42 homolog	ab41429	mouse	1:100
CENPE	centromere protein E	sc-22790	rabbit	1:50
CITED2	Cbp/p300-interacting transactivator	sc-9669	goat	1:50
CLASP1	CLIP associating protein 1	sc33476	goat	1:50
CLIP1	cytoplasmic linker protein 1	sc-25613	rabbit	1:50
DNM1	dynamain 1	ab14448	mouse	1:50
HSP90AB1	heat shock protein HSP 90-beta	ab32568	rabbit	1:50
HSPA1A / HSPA1B	heat shock protein 1A/heat shock protein 1B	ab74072	mouse	1:50
HSPB1	heat shock protein beta-1	sc-1049	goat	1:50
INCENP	inner centromere protein	ab36453	rabbit	1:1000
KIF11	kinesin family member 11	ab37009	rabbit	1:1000
KIF14	kinesin family member 14	sc-48559	goat	1:50

KIF2A	kinesin family member 2A	sc-48230	goat	1:50
KIF4	kinesin family member 4	sc-48567	goat	1:50
KTN1	kinectin 1	sc-19911	goat	1:50
MACF1	microtubule-actin crosslinking factor 1	sc-68430	rabbit	1:50
MARK4	MAP/microtubule affinity-regulating kinase 4	cell signaling 4834	rabbit	1:100
MTAP4	microtubule-associated protein 4	sc-46383	goat	1:50
NCAPD2	non-SMC condensin I complex, subunit D2	sc-49962	goat	1:50
NUMA1	nuclear mitotic apparatus protein 1	BD610562	mouse	1:50
PPP2R5D	protein phosphatase 2, regulatory subunit B (B56), delta isoform	ab26230	rabbit	1:50
RAC1	RAS-related C3 botulinum substrate 1	ab33186	mouse	1:25
RACGAP1	Rac GTPase-activating protein 1	ab61192	rabbit	1:500
RANGAP1	RAN GTPase activating protein 1	LS-C9915	mouse	1:100
SEPT1	septin 1	sc-23782	goat	1:50
SEPT2	septin 2	sc-20408	goat	1:50
SUMO1	SMT3 suppressor of mif two 3 homolog 1	ab32058	rabbit	1:100
TCP1	t-complex protein 1	sc-13869	goat	1:50
TERF2IP	telomeric repeat binding factor 2, interacting protein	ab13889	mouse	1:50
TPX2	TPX2, microtubule-associated protein homolog	ab32795	rabbit	1:250
UBB	ubiquitin B	ab7780	rabbit	1:500