

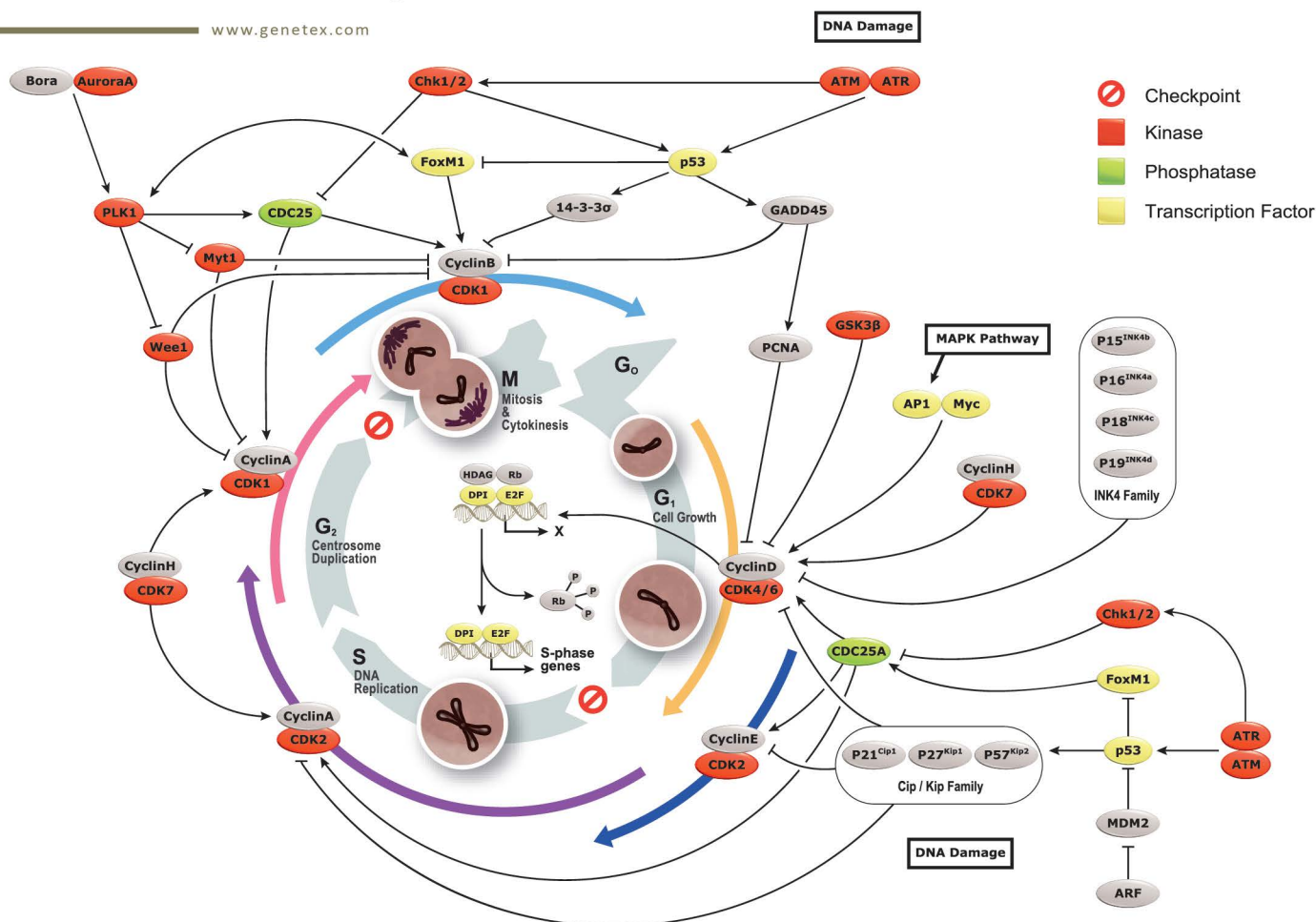
Cell Cycle

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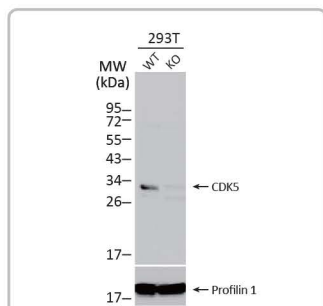


The cell cycle is an ordered set of events by which cells undertake growth and division into two daughter cells. In eukaryotes, the cell cycle is described by five phases: G₀, G₁, S, G₂, and M. In G₀ phase, cells have entered a quiescent state or are not dividing. During G₁ period, the cells grow and accumulate nutrients for the subsequent S phase, where DNA replication occurs. The gap between S and M phases is termed G₂ period, during which the cells continue to grow and prepare for mitosis that occurs in M phase. All these processes are elaborately controlled to ensure proper cell development and renewal. The key molecules that program cell cycle are cyclins and cyclin-dependent kinases (CDKs), whereas inhibitors that prevent improper cell division are two families of genes, the Cip / Kip family and the INK4 family. Notably, these inhibitor genes are also termed tumor suppressor genes as they are instrumental in the prevention of tumor formation.

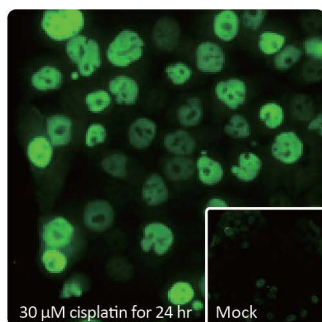
Citation Support KO/KD Validation Comparable Abs

Highlighted Products

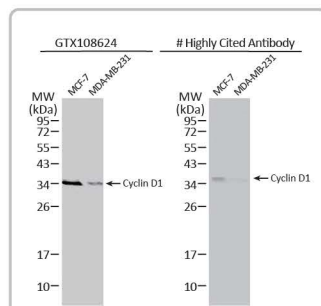
Orthogonal Validation IP/MS Analysis



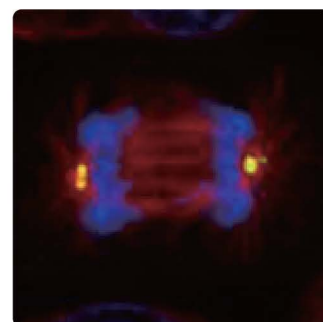
CDK5 antibody [C2C3], C-term
(GTX108328)



p21 Cip1 antibody [GT1032]
(GTX629543)



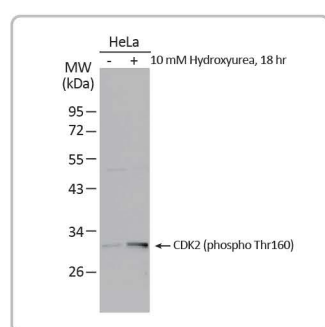
Cyclin D1 antibody [N1C3]
(GTX108624)



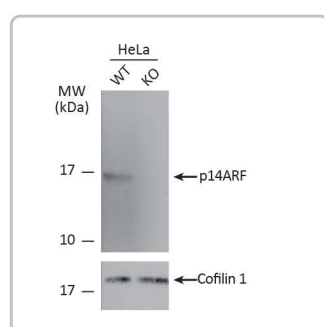
gamma Tubulin antibody
(GTX113286)

Cell-cycle proteins

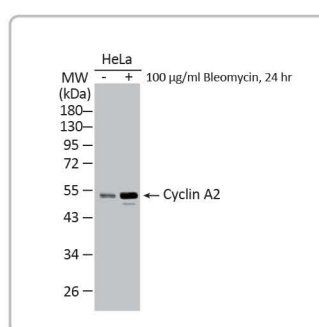
	Cat. No.	Product Name	Clonality	Reactivity	Applications
CDK	GTX108120	CDC2 antibody [N1], N-term	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IP
	GTX133860	CDC2 (phospho Thr14) antibody	Rb pAb	Hu, Ms	WB
	GTX128155	CDC2 (phospho Tyr15) antibody	Rb pAb	Hu, Dm	WB, IHC-P, IP
	GTX101226	CDK2 antibody [N1C3]	Rb pAb	Hu, Japanese Medaka	WB
	GTX132802	CDK2 (phospho Tyr15) antibody	Rb pAb	Hu	WB
	GTX133862	CDK2 (phospho Thr160) antibody	Rb pAb	Hu	WB, IHC-P
	GTX105047	CDK3 antibody [N1C2]	Rb pAb	Hu	WB
	GTX636873	CDK4 antibody [HL1407]	Rec Rb mAb	Hu, Ms, Rat	WB, IHC-P
	GTX102993	CDK4 antibody	Rb pAb	Hu, Ms, Rat, Bov	WB, ICC/IF, IHC-P
	GTX108328	CDK5 antibody [C2C3], C-term	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IHC
	GTX130416	CDK5 (phospho Tyr15) antibody	Rb pAb	Hu	WB
	GTX103992	CDK6 antibody [N1C3]	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P
	GTX113159	CDK6 antibody [N3C3]	Rb pAb	Hu	WB, ICC/IF
	GTX111919	CDK7 antibody	Rb pAb	Hu	WB, IHC-P, IP
	GTX110495	CDK8 antibody [C3], C-term	Rb pAb	Hu, Ms	WB, IHC-P
	GTX107758	CDK9 antibody [N3C3]	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P
	GTX115974	CDK10 antibody [N3C3]	Rb pAb	Hu	WB, ICC/IF
	GTX107558	CDK15 antibody [N1C3]	Rb pAb	Hu	WB, IHC-P
CDKI	GTX129903	CDKN2A / p14ARF antibody	Rb pAb	Hu	WB, ICC/IF, IP
	GTX135119	CDKN2A / p16INK4a antibody	Rb pAb	Hu	WB, IHC-P
	GTX130798	p18 INK4c antibody	Rb pAb	Ms, Rat	WB, IHC-P
	GTX102414	p19 INK4d antibody	Rb pAb	Rat	WB
	GTX629543	p21 Cip1 antibody [GT1032]	Ms mAb	Hu, Ms	WB, ICC/IF, IHC-P, FACS, IP
	GTX112898	p21 Cip1 antibody	Rb pAb	Hu, Chk	WB, ICC/IF, IHC-P
	GTX100446	p27 Kip1 antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P, IHC-Fr, IP, IHC
	GTX17353	p27 Kip1 (phospho Ser10) antibody	Rb pAb	Hu	WB, IHC-P
Cyclin	GTX31859	p57 Kip2 antibody	Rb pAb	Hu	WB, ICC/IF, ELISA
	GTX27956	Cyclin A antibody	Rb pAb	Hu, Ms, Rat	WB, IP, IHC
	GTX103042	Cyclin A2 antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IP
	GTX100911	Cyclin B1 antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P
	GTX111118	Cyclin B2 antibody	Rb pAb	Hu, Rat	WB, ICC/IF, IHC-P
	GTX638223	Cyclin D1 antibody [HL2219]	Rec Rb mAb	Hu	WB
	GTX108624	Cyclin D1 antibody [N1C3]	Rb pAb	Hu, Rat, Cat, Dog	WB, ICC/IF, IHC-P, IP, ELISA, Sandwich ELISA
	GTX133418	Cyclin D2 antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
	GTX103045	Cyclin E1 antibody	Rb pAb	Hu	WB, ICC/IF
	GTX125940	Cyclin I antibody	Rb pAb	Hu	WB, IHC-P
	GTX106554	Cyclin I2 antibody [N3C3]	Rb pAb	Hu	WB
	GTX131754	Cyclin L1 antibody	Rb pAb	Hu	WB
	GTX115825	Cyclin M3 antibody [C1C3]	Rb pAb	Hu	WB
	GTX115824	Cyclin M4 antibody [C2C3], C-term	Rb pAb	Hu	WB, IHC-P
	GTX133413	Cyclin T1 antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF
	GTX111944	Cyclin T2 antibody [C2C3], C-term	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P



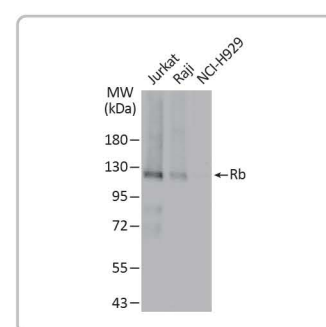
CDK2 (phospho Thr160) antibody (GTX133862)



CDKN2A / p14ARF antibody (GTX129903)

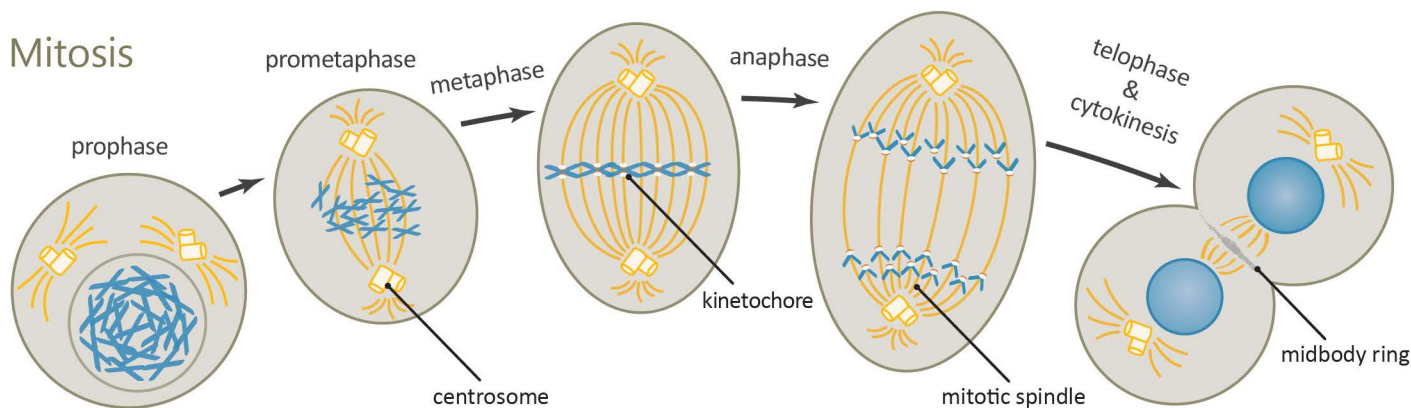


Cyclin A2 antibody (GTX103042)



Rb antibody (GTX100545)

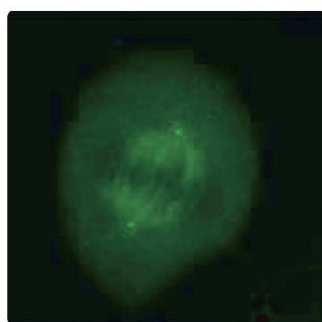
Mitosis



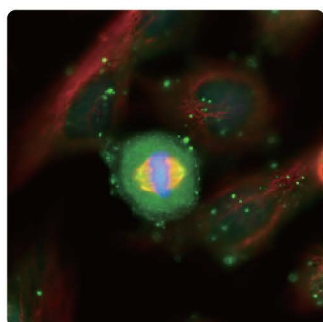
	Cat. No.	Product Name	Clonality	Reactivity	Applications
E2F	GTX09015	E2F1 antibody [GT1167]	Rec Rb mAb	Hu, Ms, Rat	WB
	GTX130030	E2F2 antibody	Rb pAb	Hu	WB
	GTX102302	E2F3 antibody [N2C3]	Rb pAb	Hu	WB
	GTX134346	E2F4 antibody	Rb pAb	Hu	WB
	GTX24071	E2F4 antibody [4E2F04]	Ms mAb	Hu, Rat	IHC-P, IHC-Fr, IHC
	GTX129491	E2F5 antibody	Rb pAb	Hu, Ms	WB
	GTX114373	E2F6 antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
Rb	GTX634627	Rb antibody [2B5]	Ms mAb	Hu	WB, ICC/IF
	GTX100545	Rb antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P, IP
	GTX133893	Rb (phospho Ser780) antibody	Rb pAb	Hu	WB
Phosphatase	GTX102308	CDC25A antibody	Rb pAb	Hu, Ms, Rat	WB, IHC-P
	GTX113331	CDC25B antibody [C1C3]	Rb mAb	Hu	WB
	GTX102809	CDC25C antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
	GTX128153	CDC25C (phospho Ser216) antibody	Rb pAb	Hu	WB

Mitotic apparatus proteins

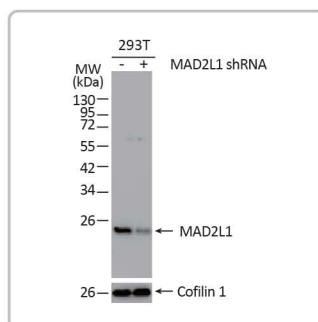
	Cat. No.	Product Name	Clonality	Reactivity	Applications
Centrosome	GTX130737	BBS4 antibody	Rb pAb	Ms, Rat	WB, IHC-P
	GTX114316	Centrin 1 antibody [N1C3]	Rb pAb	Hu, Bov	WB, ICC/IF, IHC-P, IP
	GTX129709	Centrin 2 antibody	Rb pAb	Hu	WB
	GTX114317	Centrin 3 antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P
	GTX128027	CEP152 antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IP, IHC
	GTX70094	CEP164 antibody [13]	Ms mAb	Hu	WB, ICC/IF, IP
	GTX131892	CEP192 antibody	Rb pAb	Hu	WB, IHC-P
	GTX636480	gamma Tubulin antibody [HL1175]	Rec Rb mAb	Hu, Ms, Rat, Cat, Dog	WB, ICC/IF
	GTX113286	gamma Tubulin antibody	Rb pAb	Hu, Ms, Rat, Zfsh	WB, ICC/IF, IHC-P, IHC-Wm, IP, IHC (Formalin), IHC
	GTX118735	NEK2 antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
	GTX131724	PCM1 antibody	Rb pAb	Hu	WB
	GTX111754	PLK4 antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
Mitotic spindle	GTX104620	Aurora A antibody [C3], C-term	Rb pAb	Hu	WB, ICC/IF, IHC-P
	GTX107497	BUB1 antibody	Rb pAb	Hu	WB, ICC/IF
	GTX111289	BUB1B antibody [N2C1], Internal	Rb pAb	Hu	WB, ICC/IF
	GTX113595	BUB3 antibody [N1C1]	Rb pAb	Hu, Ms, Rat	WB, IHC-P, IP
	GTX104680	MAD2L1 antibody [C2C3], C-term	Rb pAb	Hu, Rat	WB, ICC/IF, IHC-P, IP
	GTX106289	RAE1 antibody [C3], C-term	Rb pAb	Hu	WB, ICC/IF



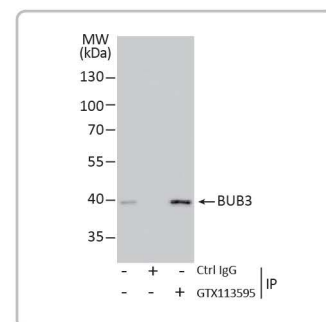
CEP152 antibody
(GTX128027)



Aurora A antibody [C3], C-term
(GTX104620)

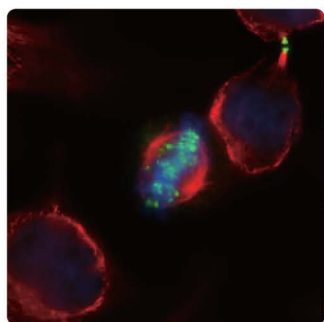


MAD2L1 antibody [C2C3], C-term
(GTX104680)

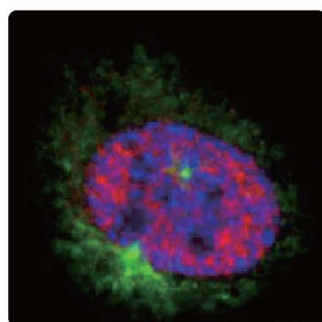


BUB3 antibody [N1C1]
(GTX113595)

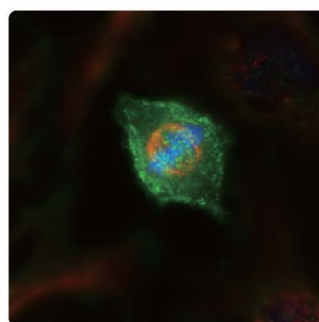
	Cat. No.	Product Name	Clonality	Reactivity	Applications
Centromere	GTX132702	Aurora B antibody	Rb pAb	Hu, Zfsh	WB, ICC/IF
	GTX103013	MCAK antibody [N1N3]	Rb pAb	Hu	WB, ICC/IF
	GTX120919	MTUS2	Rb pAb	Hu, Rat	WB, IHC-P
Kinetochore	GTX100052	Survivin antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P, IP
	GTX110993	Apc10 antibody [N1C3]	Rb pAb	Hu	WB, IHC-P
	GTX110506	Apc11 antibody [N2C3]	Rb pAb	Hu	WB
	GTX111137	CDC20 antibody	Rb pAb	Hu	WB, IP
	GTX134430	CENPA antibody	Rb pAb	Hu	WB, IHC-P
	GTX70137	CENPF antibody [14C10 1D8]	Ms mAb	Hu	WB, ICC/IF, IHC-P, IHC-Fr, FACS, IP
	GTX100212	CENPF antibody [C3], C-term	Rb pAb	Hu, Zfsh	WB, ICC/IF, IHC-P, IHC-Wm
	GTX115695	CLASP1 antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P
	GTX117504	CLIP170 antibody [N1], N-term	Rb pAb	Hu, Ms, Rat	WB, ICC/IF
	GTX101452	DYNC1H1 antibody	Rb pAb	Hu	WB, ICC/IF
	GTX112355	DYNC1I1 antibody [N3C2], Internal	Rb pAb	Hu	WB, IHC-P
	GTX112419	DYNC1I2 antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P
	GTX120114	DYNC1LI1 antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IP
	GTX80684	Dynein antibody [74.1]	Ms mAb	Hu, Rat	WB, ICC/IF, IHC-Wm, FACS, IP
	GTX70268	Hec1 antibody [9G3.23]	Ms mAb	Hu, Ms, Hm, Kg	WB, ICC/IF, IHC-Fr, FACS, IP, PLA
	GTX110735	Hec1 antibody	Rb pAb	Hu	WB, IP
	GTX70017	Hec1 (phospho Ser 55) antibody	Rb pAb	Hu, Ms, Rat, Kg	WB, ICC/IF, IP, ELISA
	GTX70013	Hec1 (phospho Ser 165) antibody	Rb pAb	Hu, Ms, Rat, Kg	WB, ICC/IF, ELISA
	GTX115759	KIF4A antibody [N1N2], N-term	Rb pAb	Hu	WB, ICC/IF, IHC-P
	GTX104875	KIF5A antibody [C3], C-term	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P
	GTX130782	KIF7 antibody	Rb pAb	Hu	WB
	GTX117117	KIF13A antibody [N3C1], Internal	Rb pAb	Hu, Rat	WB, ICC/IF, IHC-P
	GTX103196	KIF14 antibody [N1N2], N-term	Rb pAb	Hu	WB
	GTX109519	MAD1 antibody	Rb pAb	Hu, Ms, Rat, Potoroo	WB, ICC/IF, IHC-P, IP, ChIP assay
	GTX103071	MCM2 antibody [N1N2], N-term	Rb pAb	Hu	WB, ICC/IF, IP
	GTX130138	MIS12 antibody	Rb pAb	Hu	WB, IP
	GTX632184	NUF2 antibody [GT644]	Ms mAb	Hu	WB, IP
	GTX110734	NUF2 antibody	Rb pAb	Hu	WB, ICC/IF
	GTX114700	RanGAP1 antibody [N1N3]	Rb pAb	Hu, Ms, Rat	WB
	GTX107155	ZWINT antibody	Rb pAb	Hu	WB, ICC/IF
Midbody	GTX638140	alpha Tubulin antibody [HL2162]	Rec Rb mAb	Hu	WB
	GTX628802	alpha Tubulin antibody [GT114]	Ms mAb	Hu, Ms, Rat, Zfsh, Dm, Crucian carp	WB, ICC/IF, IHC-P, IHC-Fr, FACS
	GTX112141	alpha Tubulin antibody	Rb pAb	Hu, Ms, Rat, Dm, Chk, C.elegans, Mosq, Tetrahymena	WB, ICC/IF, IHC-P, IHC-Fr
	GTX112190	CEP55 antibody [N2C3]	Rb pAb	Hu	WB, ICC/IF
	GTX116003	KIF20A antibody	Rb pAb	Hu	WB
	GTX120875	MKLP1 antibody [N1N2], N-term	Rb pAb	Hu, Ms, Rat	WB, ICC/IF
	GTX104302	PLK1 antibody [N2C2], Internal	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P
	GTX101693	Septin 2 antibody [N1N3]	Rb pAb	Hu, Ms	WB, IHC-P
	GTX635396	TSG101 antibody [4A10-RB]	Rec Rb mAb	Hu	WB, ICC/IF
	GTX70255	TSG101 antibody [4A10]	Rec Ms mAb	Hu, Ms, Rat, Zfsh, Dog, Hm, Pig, Mk	WB, ICC/IF, IHC-P, FACS, IP, ELISA, EM, IHC, IHC(Free Floating)
	GTX118736	TSG101 antibody	Rb pAb	Hu, Ms	WB, IHC-P, IP, ELISA, Sandwich ELISA



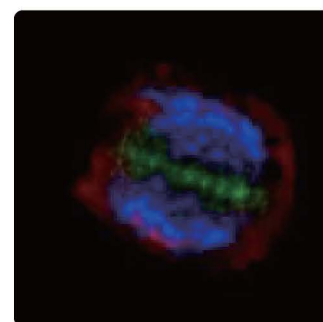
Aurora B antibody (GTX132702)



CENPF antibody [14C10 1D8]
(GTX70137)



Hec1 antibody [9G3.23]
(GTX70268)



Survivin antibody
(GTX100052)

