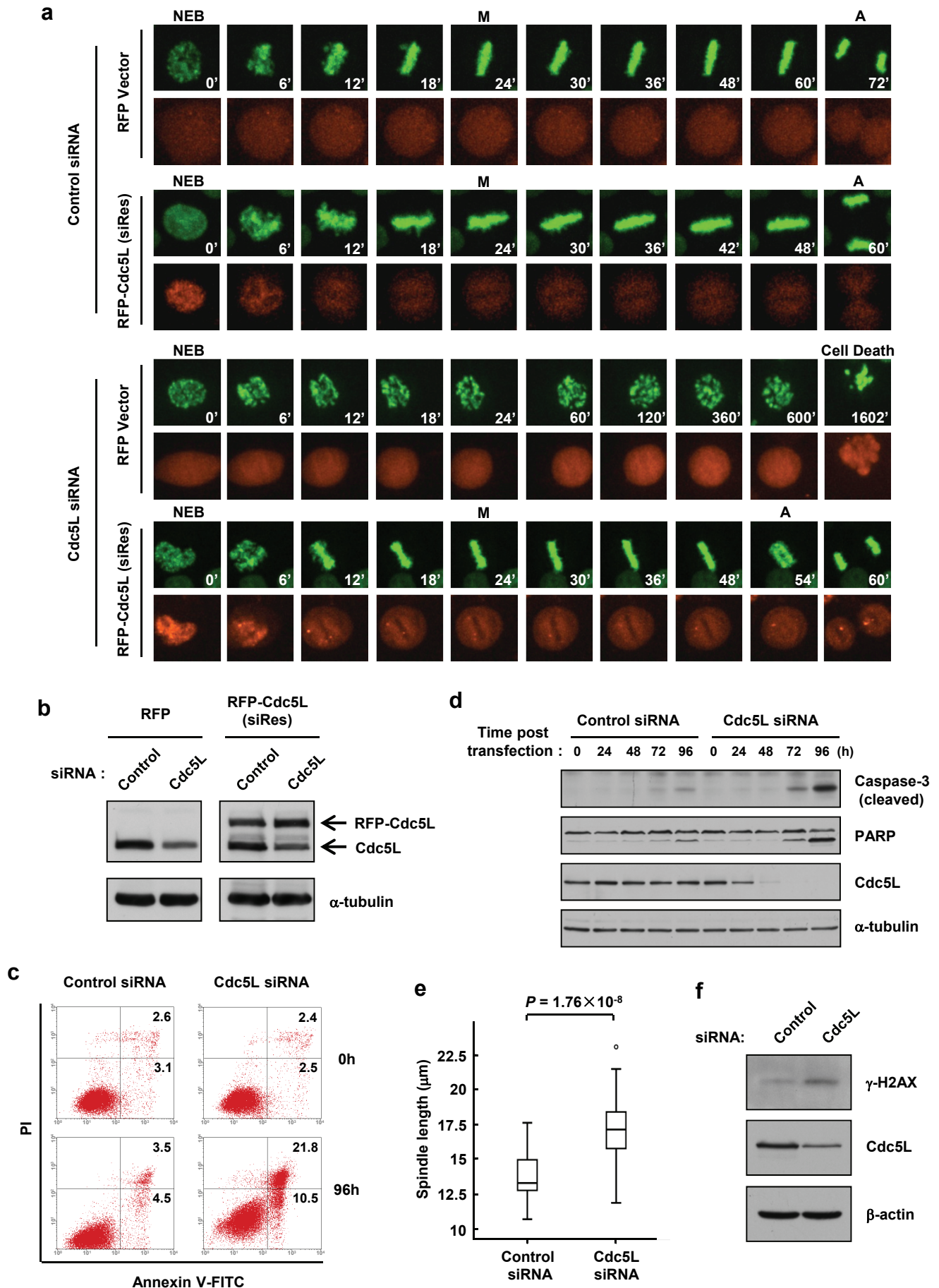
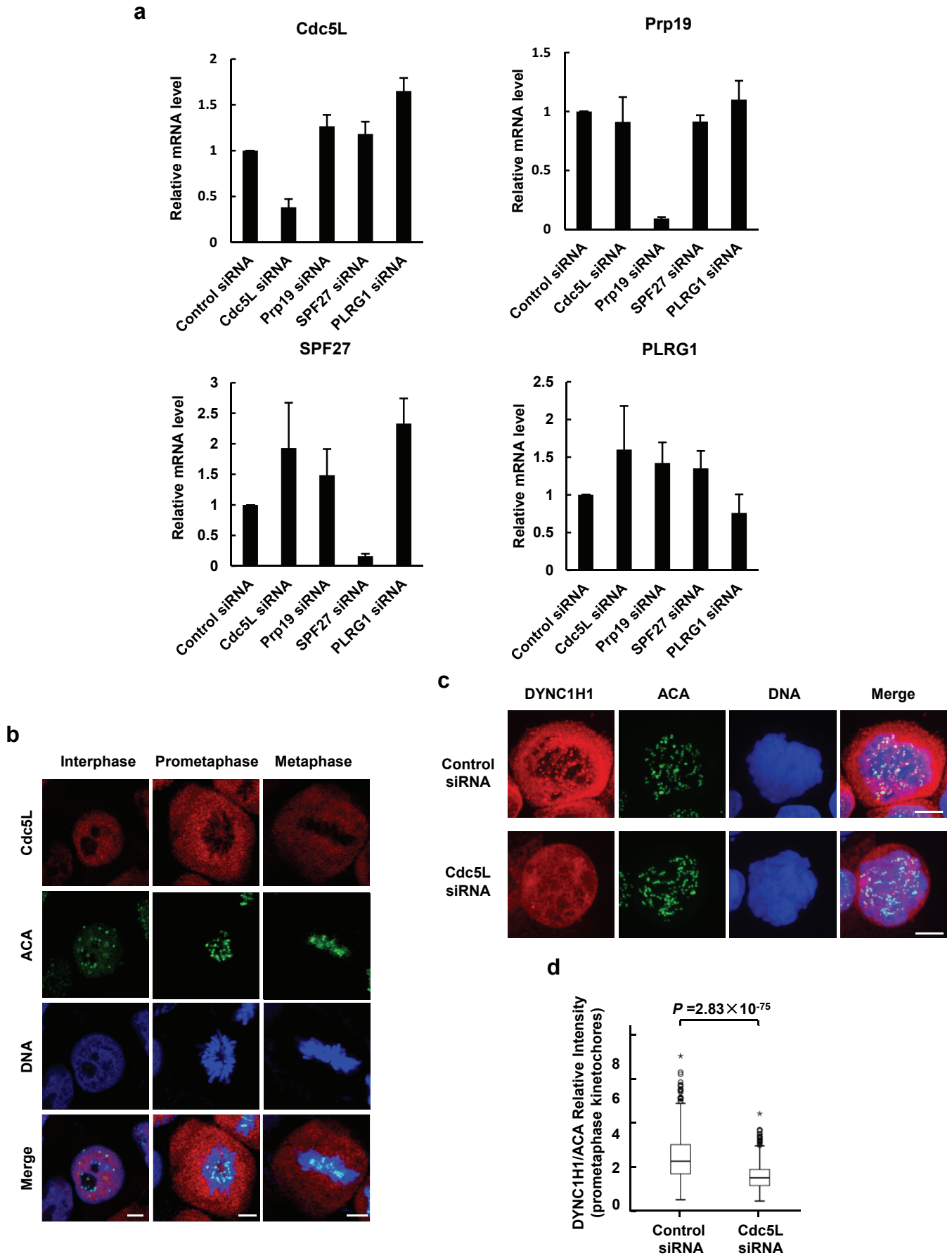


Supplementary Figure S1 Cdc5L knockdown leads to mitotic arrest.



Supplementary Figure S2 Cdc5L knockdown causes mitotic catastrophe and DNA damage.



Supplementary Figure S3 Cdc5L regulates the expression of DYNC1H1.

Supplementary Table 1

Target sequences of siRNAs used in this study

Gene symbol	siRNA no.	Target sequence (5'-3')
Cdc5L	no 1 (noHSS190692)	UUGACGUGCAAUUUCACUCGCUUGG
	no 2 (noHSS101641)	AAUUUGUUAUGCCAGAUUCCUCGGC
PLRG1	no 1 (noHSS108133)	UCAUAAACAGUACCCUGCCAAUCAA
	no 2 (noHSS108134)	CCACCGUGGAAACUCUACAGGGUUA
SPF27	no 1 (noHSS115723)	ACUAAUGUCACAGCAUGGAUGUAAU
	no 2 (noHSS115724)	UCUAGUUCAUAUGAUUGAACACGCA
Prp19	no 1 (noHSS120652)	GCAUCGCCUUCUCUGAGAAUGGUUA
	no 2 (noHSS120653)	GGAUCUGCGCAAGCUUAAGAACUU
Photinus pyralis luciferase		GGAAUUCGAGUCGUCUUAUGUAUA

Supplementary Table 2

Target sequences of primers used for quantitative real-time PCR (qRT-PCR) in this study

Gene name	Primer name	Target sequence(5'-3')
BARD1	Forward	GACAACTGGACAGCATGATTCAAC
	Reverse	TTCTTACTTCGAGGGCTAAACCAC
MYB	Forward	TCCCAAGTCTGAAAGCGTC
	Reverse	CATTCTGTTCACCAGCTTCTTC
DYNC1H1	Forward	GACGTCGGTGATGAAGGAGAAG
	Reverse	TCTGCATCAATCACGGGAGTAC
DCTN4	Forward	TTACCTGGCATGTGGATTTTGTCT
	Reverse	GTGTGTGAGGATTTTCAGGTTCC
DYNLRB2	Forward	AAGCCAAAAGCACAGTTCGTG
	Reverse	TGGCCATCGCAGGTCTATTC
RAD1	Forward	GGGGCTCCGTGAAGCATTTT
	Reverse	GGGATAGTCAAGGTGGGAAC
DCTN1	Forward	CTCTGGTCTCTGGCATTGCTG
	Reverse	AAGCAGCAGTGGTGAGTCCTTC
Cdc5L	Forward	AAGGCCCAGGATGTTTTGGTG
	Reverse	CCTGGTTATAAGCTTCACTTGAGA
Prp19	Forward	GGCACGGATGTCCAGATCTAC
	Reverse	CACGCCAAGTTCATCGCTTC
PLRG1	Forward	CCATTAAGTATACAGAGAGGATGACACAG
	Reverse	CTGGAAACCAGAAATTATCAAGAGAAAG
SPF27	Forward	GCAGAGAAAAGAACATGCAACTCAC
	Reverse	CTATCAAATTAAGCAGCAACATGGAG
GAPDH	Forward	CCCCTCCTCCACCTTTGAC
	Reverse	CCAAATTCGTTGTCATACCAGG
DYNC1H1	spliced-Exon1-Forward	GATGCGCAAGTTCCTTTG
	spliced-Exon2-Reverse	TTCTCCTTCATCACCGACGTC
	unspliced-Intron1-Forward	GTGCCAAGTCATGTAGGTGTCG
DCTN4	spliced-Exon2-Forward	AATATGCCATCGGCTGAAGC
	spliced-Exon3-Reverse	GGAAGCTGTGTGGAGATGCTC
	unspliced-Intron2-Forward	TGGTTGTGTTTGCATGTCACAG
DYNLRB2	spliced-Exon3-Forward	AAGCCAAAAGCACAGTTCGTG
	spliced-Exon4-Reverse	TGGCCATCGCAGGTCTATTC
	unspliced-Intron3-Forward	GGTGAATTGATTTTATCCATCTCTCC
RAD1	spliced-Exon4-Forward	GGGGCTCCGTGAAGCATTTT
	spliced-Exon5-Reverse	GGGATAGTCAAGGTGGGAAC
	spliced-Exon4-Forward	GGGGCTCCGTGAAGCATTTT
	unspliced-Intron4-Reverse	GGGAAGATGGAGTACAGACCAC