

Supplemental material

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Figure S2. **CCNB1-MAD1 interaction is independent of MPS1 activity. (A)** CCNB1-GFP IPs from HeLa CCNB1-GFP cells or from parental HeLa cells arrested in mitosis for 16 h with 0.3 μM nocodazole were analyzed by blotting. **(B)** CCNB1-GFP IPs treated with 20 μM MG132 (– MPS1-i) or MG132 and 2 μM AZ3146 (+ MPS1-i) for 30 min before harvesting were analyzed by blotting.

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Figure S3. Accelerated progression through mitosis in MAD1-depleted cells. (A and B) The time taken from thymidine release to NEBD (A) and from NEBD to the onset of anaphase (B) was measured in control (siCon) and MAD1 (siMAD1) depleted HeLa CCNB1-GFP cells. Data points indicate individual cells; the mean and SD are indicated by gray bars (n = 20 for siControl and n = 10 for siMAD1). (C) CCNB1-GFP concentration relative to the CCNB1-GFP intensity at the onset of imaging (I_0) was measured during the same time window. Mean CCNB1-GFP signal (I_t/I_0) is plotted from -30 to +100 min relative to NEBD. (D and E) TPR (D) and CENP-E (E) were visualized by indirect immunofluorescence in HeLa Flp-in/TREx GFP-MAD1^f and GFP-MAD1¹⁰¹⁻⁷¹⁸ cells depleted of endogenous MAD1 and induced for the GFP-MAD1 transgenes for 24 h. The bar graph shows mean CENP-E levels at the kinetochore \pm SD (n = 9). (F) Western blots of MAD1- and TPR-depleted cells were used to confirm depletion of the specific target proteins.



Video 1. **Related to Fig. 1.** HeLa cells expressing endogenously tagged CCNB1-GFP (green, left) are shown with brightfield images (grayscale, right). One image stack was captured every 2 min, and the video plays at 7 fps.





Video 2. **Related to Fig. 1.** HeLa cell expressing endogenously tagged CCNB1-GFP (green, left) with addition of 100 nM SiR-Hoechst DNA dye 8 h prior to imaging (red). One image stack was captured every 30 s, with 0 min representing the point of nuclear envelope breakdown. The video plays at 10 fps.

Provided online is one table in Excel. Table S1 contains the mass spectrometry data used in Fig. 4.