

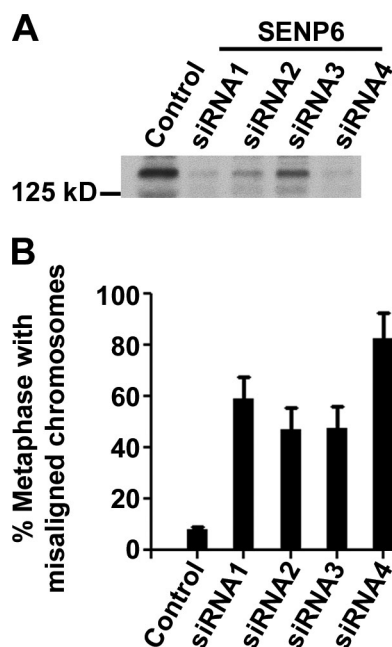
Mukhopadhyay et al., <http://www.jcb.org/cgi/content/full/jcb.200909008/DC1>

Figure S1. **Specificity of SENP6 knockdown by siRNA.** HeLa cells were treated with control or different SENP6 siRNAs and synchronized by DTB. (A) SENP6 immunoblot analysis of whole cell extracts from each siRNA treatment. (B) Cells were fixed and stained for DNA, and the percentage of metaphase cells with misaligned chromosomes was determined. The graph represents three independent experiments. Error bars represent 95% confidence interval.

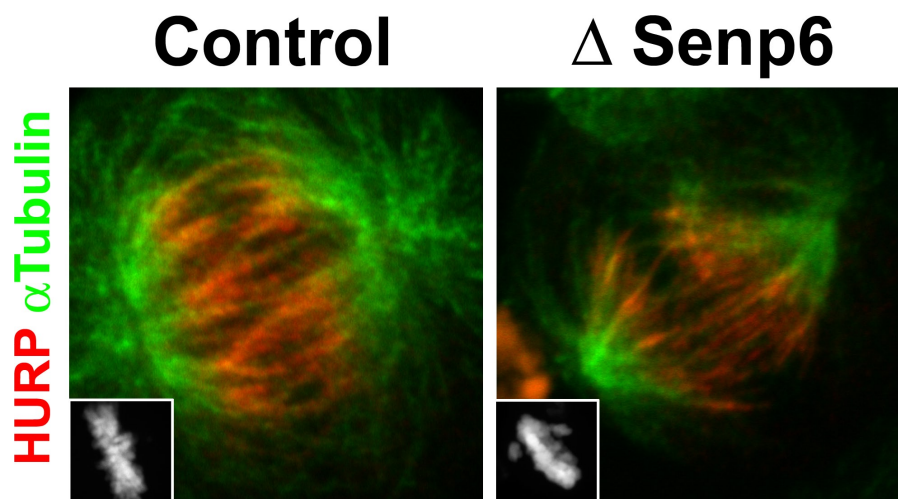


Figure S2. **k-fiber assembly is unaffected by SENP6 depletion.** HeLa cells were treated with anti-SENP6 (–) or control (+) siRNAs and DTB for 48 h. Cells were fixed and stained for α -tubulin and HURP. Insets show Hoechst staining of the cells. Bar, 5 μ m.

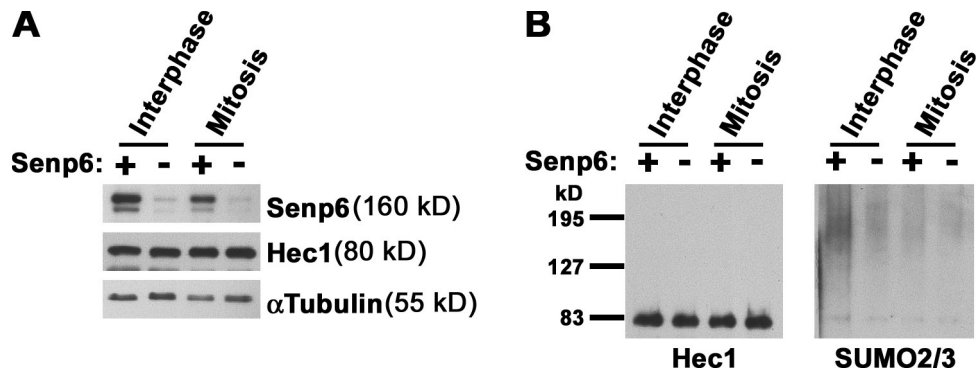
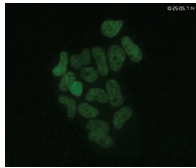
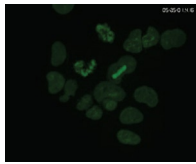


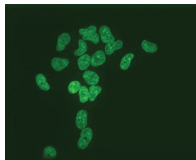
Figure S3. **Hec1 abundance is unaffected by SENP6 depletion.** HeLa cells were treated with control or SENP6 siRNA for 36 h, followed by either a 13-h thymidine block (interphase) or a 13-h nocodazole treatment (mitosis). Undepleted (+) or depleted (-) levels of SENP6 are as indicated. (A) Immunoblot analysis of whole cell extracts from each treatment. Primary antibodies used for each blot are indicated to the right of each panel. (B) Cell lysates were subjected to immunoprecipitation using rabbit antibodies against Hec1. The precipitates were subject to blotting with antibodies against Hec1 (left) or SUMO-2/3 (right).



Video 1. **Untreated HeLa^{H2B-GFP} cells.** Mitotic progression, as monitored by the GFP signal, in untreated HeLa cells stably expressing GFP-histone H2B. Images were analyzed by time-lapse confocal microscopy using a spinning disk confocal microscope (UltraVIEW ERS; PerkinElmer). Frames were taken every 5 min, and the display rate is 3 frames/s.



Video 2. **Lamin siRNA-treated HeLa^{H2B-GFP} cells.** Mitotic progression as monitored by the GFP signal in lamin siRNA-treated HeLa cells stably expressing GFP-histone H2B. Images were analyzed by time-lapse confocal microscopy using a spinning disk confocal microscope (UltraVIEW ERS; PerkinElmer). Frames were taken every 5 min for 21 h, starting 24 h after siRNA transfection. The display rate is 3 frames/s.



Video 3. **SENP6 siRNA-treated HeLa^{H2B-GFP} cells.** Mitotic progression, as monitored by the GFP signal, in SENP6 siRNA-treated HeLa cells stably expressing GFP-histone H2B. Images were analyzed by time-lapse confocal microscopy using a spinning disk confocal microscope (UltraVIEW ERS; PerkinElmer). Frames were taken every 5 min for 24 h, starting 24 h after siRNA transfection. The display rate is 3 frames/s.