

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: 1.5 μ M Latrunculin B treatment of MCF10A^{YAP-GFP-KI} cells.

File Name: Supplementary Movie 2

Description: YAP localization vs. density in MCF10A^{YAP-GFP-KI} and HRas transformed MCF10A^{YAP-GFP-KI}

File Name: Supplementary Movie 3

Description: Highlighted MCF10A^{YAP-GFP-KI} cell with rapid changes of YAP localization.

File Name: Supplementary Movie 4

Description: YAP N/C localization in MCF10A^{YAP-GFP-KI} cells, MCF10AT^{YAP-GFP-KI} cells and MCF10A^{YAP-GFP-KI} cells treated with the SRC inhibitor PP1.

File Name: Supplementary Movie 5

Description: Serum-starved MCF10A^{YAP-GFP-KI} cells stimulated with serum-containing media.

File Name: Supplementary Movie 6

Description: H1^{YAP-GFP-KI} hESC cells with a highlighted cell showing fluctuations in YAP localization.

File Name: Supplementary Movie 7

Description: YAP localization dynamics at the wound edge.

File Name: Supplementary Movie 8

Description: Thapsigargin-induced YAP localization in MCF10A control, Go6976 pre-treatment, and Δ 50LaminA overexpression. Thapsigargin added before frame 1.

File Name: Supplementary Movie 9

Description: Thapsigargin induced nuclear-deformation comparison between control and Δ 50LaminA expressing cells.

File Name: Supplementary Movie 10

Description: Tracking transcription kinetics of serum-starved MCF10A^{AREG-MS2-KI} cells before and after stimulation with serum-containing media.

File Name: Supplementary Movie 11

Description: Accumulation of cytoplasmic ANKRD1 mRNAs in serum-starved MCF10A^{Ankrd1-MS2-KI} cells stimulated with serum-containing media.

File Name: Supplementary Movie 12

Description: Tracking transcription kinetics before and after Thapsigargin treatment in MCF10A^{ANKRD1-MS2-KI} and MCF10A^{AREG-MS2-KI} cells.

File Name: Supplementary Movie 13

Description: Transcription kinetics before and after mitosis in MCF10A^{ANKRD1-MS2-KI} and MCF10A^{AREG-MS2-KI} cells. The timestamp is with respect to cytokinesis.

