

Supplemental Materials

Molecular Biology of the Cell

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Supplemental Figure Legends.

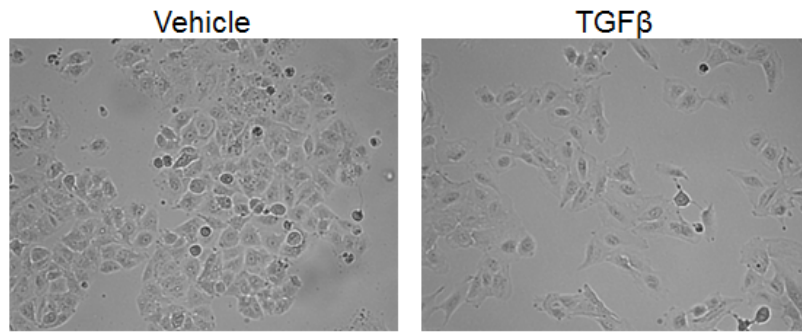
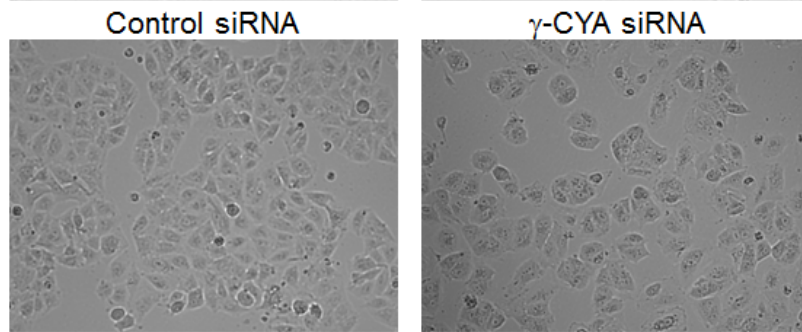
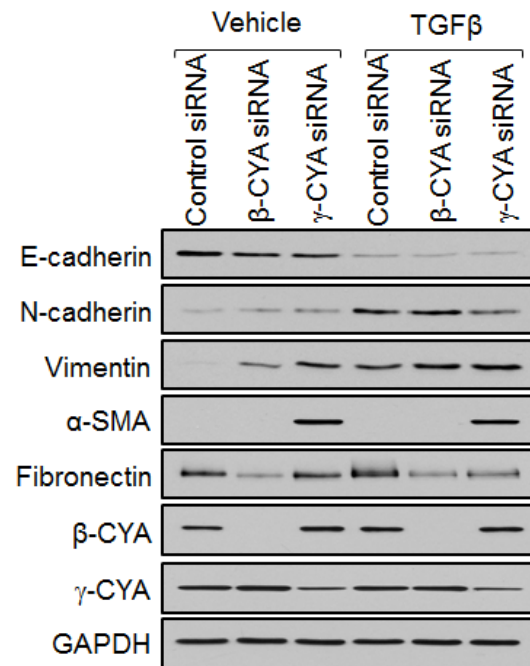
Suppl. Figure 1. TGF β -induced EMT in control and cytoplasmic actin isoform-depleted epithelial cells. A549 cells were transfected with control, β -CYA, or γ -CYA-specific siRNA SmartPools and on day 2 post-transfection were treated for another 48 h with either vehicle or TGF β (10 ng/ml). The effect of TGF β treatment (**A**) or γ -CYA depletion (**B**) on the morphology of A549 cells was examined by bright field microscopy. (**C**) Expression of cytoplasmic actins and different EMT markers in actin isoform depleted cells, with or without TGF β exposure, was determined by immunoblotting.

Suppl. Figure 2. Depletion of γ -CYA induced expression of EMyT markers in multiple epithelial cell types. 293 HEK, PANC1, and SW13 epithelial cells were transfected with either control, or γ -CYA-specific siRNA duplexes (D1 and D2), and expression of EMyT markers was analyzed by immunoblotting.

Suppl. Figure 3. Depletion of γ -CYA inhibits expression of early response genes. A549 cells were transfected with either control or γ -CYA- siRNA duplexes 2 and expression of early response genes was analyzed with quantitative real-time RT-PCR at different time points after transfection. Expression of all early response genes is normalized by the expression of a housekeeping gene. Data is presented as mean \pm SE (n=3); *P<0.05, **P<0.005, ***P<0.0005.

Suppl. Figure 4. Nuclear translocation of MRTF-A and MRTF-B in γ -CYA depleted epithelial cells. (**A,B**) Control or γ -CYA-depleted A549 cells were transfected with FLAG-tagged MRTF-A and MRTF-B with subsequent immunolabeling with anti-FLAG antibody. (**C**) Localization of endogenous MRTF-B in control or γ -CYA-depleted A549 cells was determined

by immunofluorescent labeling and confocal microscopy. Arrows indicate nuclear localization of MRTF-A and MRTF-B in γ -CYA-depleted cells.

A**B****C**

□ Control siRNA
■ γ -CYA siRNA

