

Supplementary Movie Legends

Supplementary Movie 1. RhoRac cells cultured on 1 mg/ml collagen gels without doxycycline or cumate. Scalebar = 100 μm .

Supplementary Movie 2. RhoRac cells cultured on 1 mg/ml collagen gels with 25 ng/ml doxycycline. Scalebar = 100 μm .

Supplementary Movie 3. RhoRac cells cultured on 1 mg/ml collagen gels with 25 $\mu\text{g/ml}$ cumate. Scalebar = 100 μm .

Supplementary Movie 4. RhoRac cells cultured on 1 mg/ml collagen gels with 25 ng/ml doxycycline and 25 $\mu\text{g/ml}$ cumate. Scalebar = 100 μm .

Supplementary Movie 5. RhoRac cells cultured on 1 mg/ml collagen gels first with 25 ng/ml doxycycline and then switched to 25 $\mu\text{g/ml}$ cumate after $t = 0$. Scalebar = 100 μm .

Supplementary Movie 6. RhoRac cells cultured on 1 mg/ml collagen gels first with 25 $\mu\text{g/ml}$ cumate and then switched to 25 ng/ml doxycycline after $t = 0$. Scalebar = 100 μm .