



FIGURE 9.13. Localization of actin, a key cytoskeletal protein, in cells. The top cell is a quiescent (resting) cell and shows relatively little organization of its actin cytoskeleton, whereas the bottom cell is one in which the GTPase, Rho, has been activated, which, in turn, has led to the dramatic reorganization of the actin cytoskeleton into cable-like structures. Many external stimuli can cause a rapid change in cell morphology by activating enzymatic pathways like this one and do so directly without the need to control gene transcription.

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