

Actin Polymerisation

Please note – this protocol has been optimised for certain conditions and is meant as a guide only, you may need to alter some parameters to suit your own experiment

1. Serum-starve cell culture in media containing 0.5% FCS for 2 hours prior to start of assay
2. Wash cells twice with pre-warmed PBS
3. Stimulate with chemoattractant at optimal concentration. Incubate for 15 minutes, mixing a few times during incubation
4. Fix sample in 3.7% PFA for 10 minutes at RT (avoid any methanol-containing fixatives as methanol can disrupt actin during the fixation process)
5. Pellet cells and wash twice with PBS
6. Permeabilise cells using 0.1% TritonX for 3-5 minutes on ice
7. Wash twice with PBS
8. Incubate cells with 50 μ l of NBD-phalloidin (5 μ l stock in 200 μ l PBS) for 30 minutes on ice
9. Wash twice with PBS
10. Resuspend in 300 μ l for analysis on cytometer (NBD detected in FL1)

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