Product Information

EasyProbes™ ActinGreen 488 Stain

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Unit Size</th>
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<tr>
<td>C060</td>
<td>2 × 2.5 mL</td>
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**Product Description**

Our actin probes are prepared by conjugating phalloidin with our Andy Fluor dyes. These fluorescently-labeled phalloidins have virtually identical binding properties with actin from different species including plants and animals. These phalloidin conjugates maintain high binding affinity and selectivity with F-actin, providing useful probes for multicolor imaging applications.

**Feature:**

- High selectivity with F-actin
- Multicolor selection
- Good photostability
- Superior to antibody staining

**Stain Protocol**

This procedure may not be optimum for a particular experimental system, but has yielded consistent results in most instances. The following protocol describes the staining procedure for adherent cells grown on glass coverslips.

1.1 Wash cells twice with prewarmed phosphate-buffered saline, pH 7.4 (PBS).
1.2 Fix the sample in 3.7% formaldehyde solution in PBS for 10 minutes at room temperature. **Note:** Methanol can disrupt actin during the fixation process. Therefore, it is **best to avoid any methanol containing fixatives.** The preferred fixative is methanol-free formaldehyde.
1.3 Wash two or more times with PBS.
1.4 Place each coverslip in a glass petri dish and extract it with a solution of acetone at -20°C or 0.1% Triton X-100 in PBS for 3 to 5 minutes.
1.5 Wash two or more times with PBS.
1.6 Pre-incubate cells with PBS containing 1% BSA for 20–30 minutes.
1.7 Apply 2 drops of **EasyProbes™ ActinGreen 488 Stain** on the coverslip, and incubate for 30 minutes at room temperature. To avoid evaporation, keep the coverslips inside a covered container during the incubation.
1.8 Wash two or more times with PBS.
1.9 For long-term storage, the cells should be air dried and then mounted in a permanent mountant such as Cytoseal. Specimens prepared in this manner retain actin staining for at least six months when stored in the dark at 2–6°C.