

Protocol III: Live-cell imaging

All Amytracker™ fluorescent tracers permeate the cell membrane of living cells without permeabilization. We recommend washing, but if you have sensitive cells, you might consider to skip the washing step. Due to their low background fluorescence and minimal interference with biological autofluorescence, we recommend Amytracker™630 or Amytracker™680 for live-cell imaging. As Amytracker™ don't bleach easily, you can use them for confocal, time-lapse imaging or multiphoton microscopy. Use cell culture medium with or without serum according to the requirements of your cell culture.

Solutions and Reagents:

Use Amytracker™ *ex vivo* variant, which is provided as 500-fold concentrated solution. The following reagents are required (not supplied):

- Cell culture medium

Assay Procedure:

- Dilute Amytracker™ in cell culture medium 1:500.
- Incubate your cells in Amytracker™ supplemented cell culture medium for 30 min under normal culture conditions.
- Replace Amytracker™ supplemented medium with fresh cell culture medium.
- Perform microscopy method of choice.

Fluorescence Microscopy:

- **Amytracker™480:** Excite at 405 nm (standard laser line) and detect emission using the DAPI or FITC filter sets. Optional: An excitation range of 405-458 nm and a detection range of 470–550 nm may be applied depending on available laser lines and filter sets.
- **Amytracker™520:** Excite at 458 or 488 nm (standard laser lines) and detect emission using a standard FITC filter set. Optional: An excitation range of 405-488 nm and a detection range of 500-600 nm may be applied depending on available laser lines and filter sets.
- **Amytracker™630:** Excite at 488 or 514 nm (standard laser lines) and detect emission using standard TRITC or TxRed filter set. Optional: An excitation range of 458-514 nm and a detection range of 600-650 nm may be applied depending on available laser lines and filter sets.
- **Amytracker™680:** Excite at 561 nm (standard laser line) and detect emission using a standard Cy5 filter set. Optional: An excitation range of 530-565 nm and a detection range of 600-800 nm may be applied depending on available laser lines and filter sets.

Head Office

Ebba Biotech AB
Medeon Science Park
Per Albin Hanssons väg 41
SE-205 12 Malmö
Sweden

Stockholm Branch

Ebba Biotech AB
Karolinska Institutet Science Park
Fogdevreten 2a
SE-171 65 Solna
Sweden

Company Information

Org-nr: 559016-7093
VAT-nr: SE 559016709301

Contact

Web: ebbabiotech.com
Email: info@ebbabiotech.com
Phone: +46 73 985 40 51