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Magic Red Cathepsin B activity assay

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Protocol status: Working

We use this protocol and it's working

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Abstract


This protocol details the magic red Cathepsin B activity assay.

Materials

Assay Kits:

- Magic Red Fluorescent Cathepsin B assay kit (Immunochemistry Technologies, CA).



Coverslips:

-  Corning® BioCoat™ Poly-D-Lysine #1 German Glass Coverslip **Merck Catalog #354086**



Cell Culture/Treatments

15m

- 1 0.5x10⁴/ml of cells plated on coverslips.
- 2 PFF-488 treatment.
- 3 PBS/trypsin (0.01%) wash.
- 4 1x Magic Red solution for last  00:15:00 at  37 °C in cell culture incubator.



15m



Imaging

- 5 Live-Cell imaging.
- 6 Leica Stellaris 8 confocal laser scanning microscope, assembled with live cell chamber with CO₂ gas, temperature and humidity controlled.
- 7 Image analysis:
Image J. quantification of the % area of the cell covered by Magic Red signal, as well as total signal intensity per cell.