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ROS Measurement Using CellROX

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We use this protocol and it's working

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Abstract

This protocol describes a method to assess oxidative stress levels in cells using the fluorescent probe CellROX using flow cytometry

Materials

- **CellROX-Green reagent (5 µM)** (Invitrogen, Cat. No. C10444)
- **PBS**
- **Trypsin**
- **Flow cytometer**

Preparation for Experiment

1 Once cells are ready for the experiment, aspirate the media and add fresh media

CellROX Treatment

30m

2 Treat the cells with 5 µM CellROX-Green (Invitrogen, Cat No. C10444) for 00:30:00 at 37 °C

30m

2.1 Wash the cells once with PBS.

Cell Detachment

3m

3 Trypsinize the cells to detach them from the culture surface. 00:03:00 37 °C

3m

3.1 Centrifuge the cells at 1000 rpm 00:03:00 and discard the supernatant.

3m

Flow Cytometry Analysis

4 Resuspend the cells in PBS.

5 Measure the intensity of CellROX fluorescence using flow cytometry to assess oxidative stress levels.

Protocol references

CellROX