

Product datasheet

Cell Proliferation Staining Reagent - Deep Red Fluorescence - Cytopainter ab176736

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Overview

Product name Cell Proliferation Staining Reagent - Deep Red Fluorescence - Cytopainter

Sample type Adherent cells, Suspension cells

Assay type Cell-based (quantitative)

Species reactivity **Reacts with:** Other species

Predicted to work with: Mammals 

Product overview

Cell Proliferation Staining Reagent - Deep Red Fluorescence | Cytopainter (ab176736) is a powerful tool to analyze heterogeneous cell populations where multicolor analysis is required. This reagent is designed to label cells at $E_m = 628-643$ nm excited with a red laser at $E_x = 633$ nm.

The CytoLabeling Red Reagent dye contained in this kit is functionally similar to CFSE and can be used for the multicolor applications where either GFP or FITC-labeled antibody is used, since the CytoLabeling Reagents staining reagents have either excitation and emission spectra distinct from CFSE and its fluorescein analogs.

Main features of CytoLabeling Deep Red Reagent:

It eliminates the dye efflux drawback associated with CFSE

It is compatible with the cell culture medium in the staining cells prior analysis - no washing required

It is retained up to 9 generations after staining

Fluorescence is preserved upon formaldehyde fixation

This product can be used for imaging or flow cytometric analysis.

Review other dyes and kits for [cell proliferation staining](#), or the [live cell staining fluorescent dyes guide](#)

Notes

Uniform labeling of live cells with a dye containing a cell-retaining group to allow retention in

proliferating cells. It enables multicolor labeling and functional analysis of live cells in combination with other fluorochromes. The dye is retained for up to 9 generations after staining.

Platform Flow cytometer

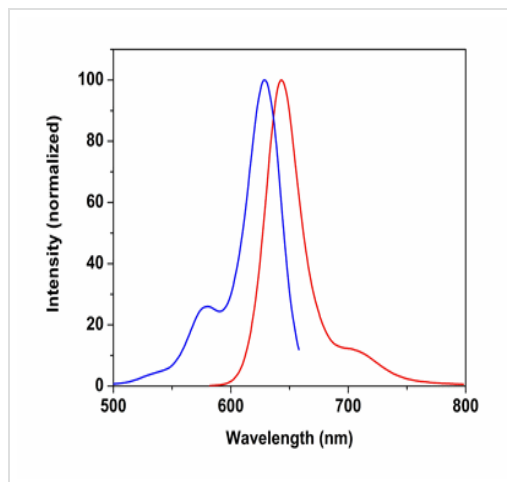
Properties

Storage instructions Store at -20°C. Please refer to protocols.

Components	500 tests	1000 tests
CytoLabeling Red Reagent	1 vial	1 x 2 vials

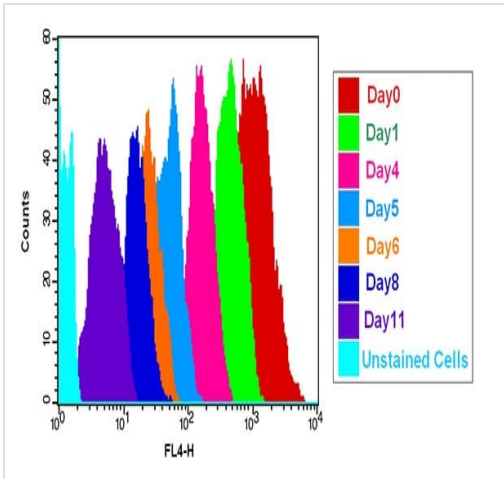
Relevance Cell proliferation is the multiplication or reproduction of cells, as a result of cell growth and cell division, resulting in the expansion of a cell population.

Images



Emission and Excitation spectra for CytoPainter Cell Proliferation Staining Reagent - Red Fluorescence (ab176736).

Emission and Excitation spectra for CytoPainter Cell Proliferation Staining Reagent - Red Fluorescence (ab176736)



Cell tracking assay with CytoPainter Cell Proliferation Staining Reagent - Red Fluorescence (ab176736)

Cell tracking assay with CytoPainter Cell Proliferation Staining Reagent - Red Fluorescence (ab176736). Jurkat cells (2×10^6 cells/mL) were stained with ab176736 on Day 0. The cells were passed serially at 1:1 ratio for 11 days. Fluorescence intensity was measured with a flow cytometer in FL1 channel on the day after passage. Successive generations were represented by different colors.

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