abcam

Product datasheet

Fixable Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) - Cytopainter ab176738

3 Images

Overview

Product name	Fixable Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) - Cytopainter
Detection method	Fluorescent
Sample type	Adherent cells, Suspension cells
Assay type	Cell-based (quantitative)
Species reactivity	**Reacts with:** Mammals, Other species
Product overview	Fixable Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) | Cytopainter (ab176738) is used to evaluate the viability of mammalian cells by flow cytometry. The fluorescent dye provided in the kit is retained in cells by reacting with cellular components. For viable cells, only the cell-surface amines are available to react with the dye while for the necrotic cells or the other cells with compromised membranes, the reactive dye reacts with cell surface amines and intracellular amines, resulting in more intense fluorescent staining. The difference in fluorescence intensity between the live and dead cell populations is ~100-500 fold and can be completely preserved after fixation. The dye is designed to label cells at Ex/Em =410/450 nm excited with a violet laser at Ex=405 nm.
Notes	**Related assays** Review the **cell health assay guide** to learn about kits to perform a **cell viability assay**, **cytotoxicity assay** and **cell proliferation assay**.
Platform	Flow cytometer

Properties

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

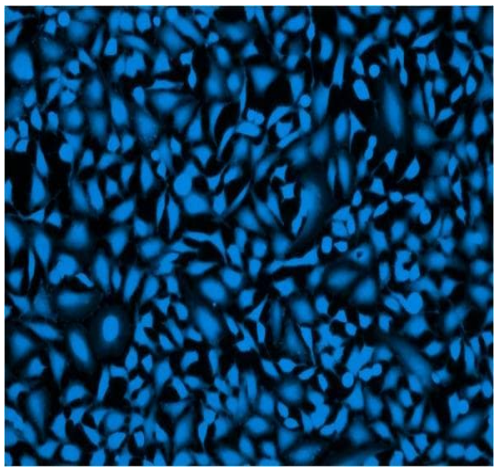
Components	200 tests
DMSO	1 x 200µl

Components	200 tests
Tracking dye Violet 450	1 vial

Relevance

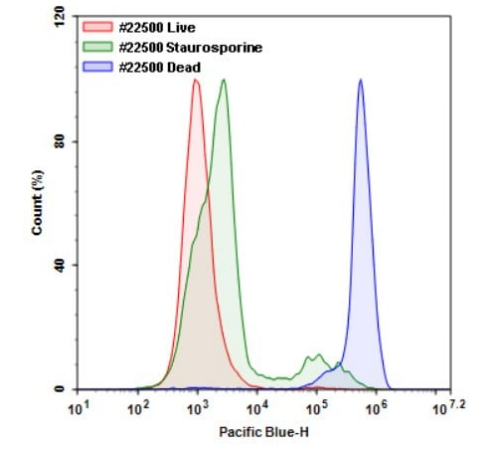
Cell viability is a determination of living or dead cells, based on a total cell population. Cell viability assess healthy cells in a sample, with no distinction between dividing or quiescent cells. An increase in cell viability indicates cell growth, while a decrease in viability can generally be interpreted as the result of either toxic effects of compounds/agents or suboptimal culture conditions.

Images



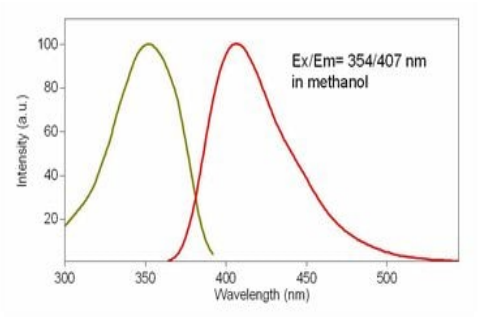
HeLa cells stained with CytoPainter Fixable Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) (ab176738)

HeLa cells fixed with formaldehyde and stained with Abcam's CytoPainter Fixable Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) (ab176738) in a Costar black wall/clear bottom 96-well plate.



Jurkat cells stained with CytoPainter Fixable Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) (ab176738)

Detection of Jurkat cell viability by ab176738. Jurkat cells were treated and stained with Stain It™ Violet 450, and then fixed in 3.7% formaldehyde and analyzed by flow cytometry. Live (Red), staurosporine treated (Green) and heat-treated (Blue) cells were distinguished with Pacific Blue channel.



Excitation and Emission spectra of CytoPainter Fixable Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) (ab176738)

Excitation and Emission spectra of CytoPainter Fixable Cell Viability Assay Kit.

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