abcam

Product datasheet

Fixable Cell Viability Assay Kit (Fluorometric - Green) - Cytopainter ab176742

3 Images

Overview

Product name	Fixable Cell Viability Assay Kit (Fluorometric - Green) - 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 - Green) | Cytopainter (ab176742) 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 folds and can be completely preserved after fixation. The approximate fluorescence excitation is 498 nm and emission maximium is 521 nm. The Excitation source is 488 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

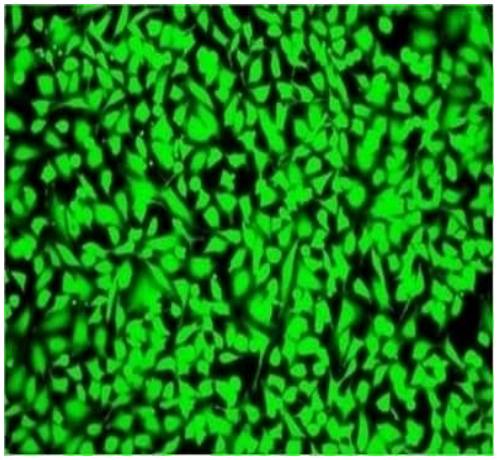
Storage instructions	Store at -20°C. Please refer to protocols.

Components	200 tests
DMSO	1 x 200µl
Tracking dye Green	1 vial

Relevance

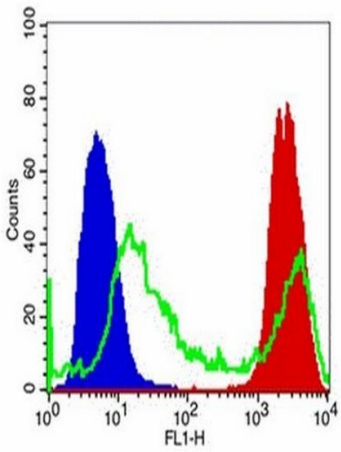
Cell viability is a determination of living or dead cells, based on a total cell population. Cell viability assess healthy cells in a sample, with no distinction between dividing or quiescent cells. An increase in cell viability indicates cell growth, while a decrease in viability can generally be interpreted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

Images



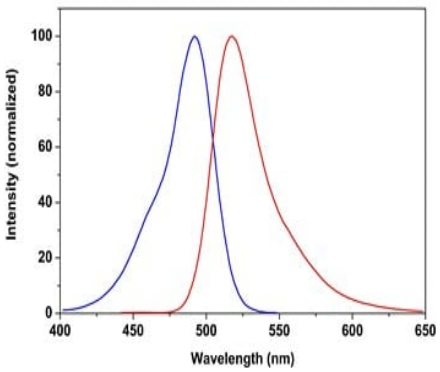
CytoPainter Fixable Cell Viability Assay Kit (Fluorometric - Green)

Fluorescent imaging of HeLa cells using ab176742. HeLa cells were treated and stained with Tracking Dye Green. The cells were fixed in 3.7% formaldehyde and analyzed by fluorescence microscopy.



Detection of Jurkat cell viability by CytoPainter Fixable Cell Viability Assay Kit (Fluorometric - Green)

Detection of Jurkat cell viability using Abcam's CytoPainter Fixable Cell Viability Assay Kit (Fluorometric - Green) (ab176742). Jurkat cells were treated and stained with Tracking Dye Green. The cells were fixed in 3.7% formaldehyde and analyzed by flow cytometry. Live (Blue solid peak), staurosporine treated (green line) and heat-treated (red solid peak) cells were distinguished with Ex/Em = 488 nm /520 nm (FL1). The live cell population is easily distinguished from the dead cell population, and nearly identical results were obtained using unfixed cells.



Excitation and Emission Spectra for CytoPainter Fixable Cell Viability Assay Kit (Fluorometric - Green) (ab176742)

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