# abcam

## Product datasheet

# Fixable Cell Viability Assay Kit (Fluorometric - Deep Red) - Cytopainter ab176745

### 3 Images

Overview

Product name Fixable Cell Viability Assay Kit (Fluorometric - Deep Red) - 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 - Deep Red) | Cytopainter (ab176745) 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 approximate fluorescence excitation is 649 nm and emission maximium is 660

nm. The Excitation source is 633 nm.

The dye is designed to label cells at Ex/ Em = 649/660 nm. The Excitation source is 633 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.

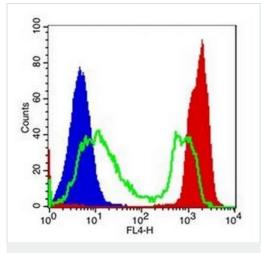
Components	200 tests
DMSO	1 x 200µl
Tracking dye Deep Red	1 vial

1

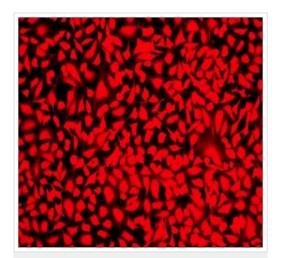
#### Relevance

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.

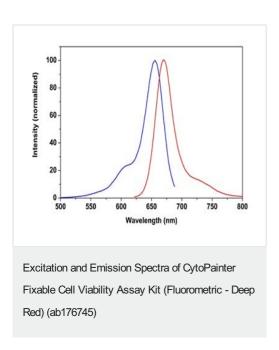
#### **Images**



Detection of Jurkat cell viability using CytoPainter Fixable Cell Viabilty Assay Kit (Fluorometric -Deep Red) (ab176745)



HeLa stained with CytoPainter Fixable Cell Viability Assay Kit (Fluorometric - Deep Red) (ab176745) Fluorescent imaging of HeLa cells fixed with formaldehyde and labeled with ab176745 in a black wall/ clear bottom 96 well plate



Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

#### Our Abpromise to you: Quality guaranteed and expert technical support

- · Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- · We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <a href="https://www.abcam.com/abpromise">https://www.abcam.com/abpromise</a> or contact our technical team.

#### Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors