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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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(FOR RESEARCH USE ONLY. DO NOT USE IT IN CLINICAL DIAGNOSIS !)

Propidium Iodide (PI) Staining Solution

Catalog No: E-CK-A161

Sizes: 50 Tests / 100 Tests / 200 Tests / 500 Tests

Cat.	Products	50 Tests	100 Tests	200 Tests	500 Tests	Storage
E-CK-A161	Propidium Iodide (PI) Staining Solution	250 µL	500 µL	1 mL	1.25 mL×2	2~8 °C
Manual			One Copy			

This manual must be read attentively and completely before using this product.

If you have any problems, please contact our Technical Service Center for help.

Phone: 240-252-7368(USA) Fax: 240-252-7376(USA)

Email: techsupport@elabscience.com

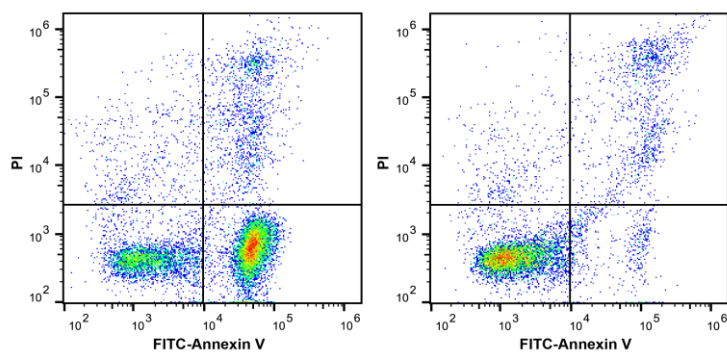
Website: www.elabscience.com

Please kindly provide us the lot number (on the outside of the box) of the kit for more efficient service.

Introduction

Elabscience® Propidium Iodide (PI) Staining Solution is developed to identify apoptotic and necrotic cells. Propidium Iodide (PI) is a common DNA dye that is not permeable to cell membrane. Once binding to DNA, the fluorescence of PI increases by nearly 20 fold. Due to the loss of integrity of membrane, PI can enter late apoptotic or necrotic cells to stain DNA. Cells at different apoptotic stages can be distinguished by using PI and Annexin V.

Jurkat cells were treated with 5 μ M Camptothecin and detected with this reagent and Annexin V-FITC.



Jurkat cells were cultured with **(Left)** or without **(Right)** 5 μ M Camptothecin for 4 h. Annexin V-FITC single-positive cells were early apoptotic cells, Annexin V-FITC and PI double-positive cells were necrotic or late apoptotic cells, and PI single-positive cells were naked nuclei.

Staining Procedure

1. Induce apoptosis of suspension cells with reagents of interest. Collect cell cultures, centrifuge at 300 g for 5 min and discard the supernatant. Add PBS to wash the cells and resuspend the cells gently followed by the cell counting.

Tip: This product is only validated in suspension cells. Good cell viability is the key to the experiment. When the adherent cells are used for apoptotic detection, treatments like digestion may increase the ratio of necrotic or apoptotic cells and cause uncontrollable effects on the experimental results. Please be aware!

2. Split the cell suspension into tubes, $1\sim5 \times 10^5$ cells for each, centrifuge at 300 g for 5 min and discard the supernatant. Add PBS to wash the cells and discard the supernatant. Add 500 μ L of $1 \times$ Annexin V Binding Buffer [**E-CK-A151**] to resuspend the cells.
3. Add 5 μ L of Annexin V-FITC [**E-CK-A111**] and 5 μ L of Propidium Iodide (PI) Staining Solution to each tube.
4. Gently vortex the cells and incubate at room temperature for 15~20 min in the dark.
5. Analyze the cells immediately with proper machine settings. Otherwise, place the cells on ice in the dark and analyze within 1 h.

Storage

Store at 2~8 $^{\circ}$ C for 12 months. Propidium Iodide (PI) Staining Solution should be stored in the dark.

Cautions

1. For maximal assay performance, this reagent should be used within 12 months. Avoid freeze / thaw cycles.
2. Detect apoptosis as soon as possible after staining to avoid the increase number of apoptosis or necrosis.
3. Avoid extended exposure of the samples to direct light to protect the fluorophores from quenching.
4. For your safety and health, please wear the lab coat and disposable gloves before the experiments.