SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Elabscience®

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

Annexin V-AF647 Reagent

Catalog No: E-CK-A113

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

Cat.	Products	50 Tests	100 Tests	200 Tests	500 Tests	Storage
E-CK-A113	Annexin V-AF647	250 μL	500 μL	1 mL	1.25 mL × 2	2~8 ℃
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.

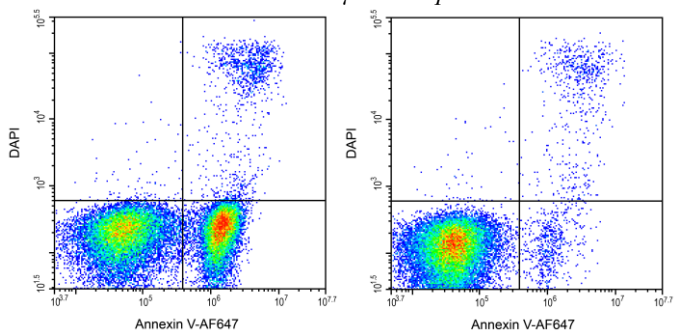
Introduction

Elabscience® Annexin V-AF647 is developed to identify apoptotic and necrotic cells.

Annexin V is a member of the annexin family, which binds to phosphatidylserine (PS) in a calcium-dependent manner. Annexin V-AF647, the AF647-conjugated format, binds specifically to the PS on the outer leaflet apoptotic cell membrane and can be detected with flow cytometry or fluorescence microscopy.

Cells at different apoptotic stages can be distinguished by using Annexin V and membrane impermeable DNA dyes like Propidium Iodide (PI), 7-Amino Actinomycin D (7-AAD) or 4',6-Diamidino-2-Phenylindole (DAPI).

Jurkat cells were treated with 5 μM Camptothecin and detected with this reagent and DAPI.



Jurkat cells were cultured with (**Left**) or without (**Right**) 5 μM Camptothecin for 4 h. Annexin V-AF647 single-positive cells were early apoptotic cells, Annexin V-AF647 and DAPI double-positive cells were necrotic or late apoptotic cells, and DAPI 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, 1~5 × 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 μL of 1 ×Annexin V Binding Buffer [E-CK-A151] to resuspend the cells.
3. Add 5 μL of Annexin V-AF647 and 5 μL of DNA dye (PI [E-CK-A161], 7-AAD [E-CK-A162]) or DAPI [E-CK-A163]) 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 ℃ for one year 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.