

Annexin V-EGFP Azide-Free Lyophilized Powder

Cat. No: E-CK-A119U

Size: 25 µg/100 µg

Cat.	Products	25 µg	100 µg	Storage
E-CK-A119U	Annexin V-EGFP Azide-Free Lyophilized Powder	25 µg	100 µg	-20°C, shading light

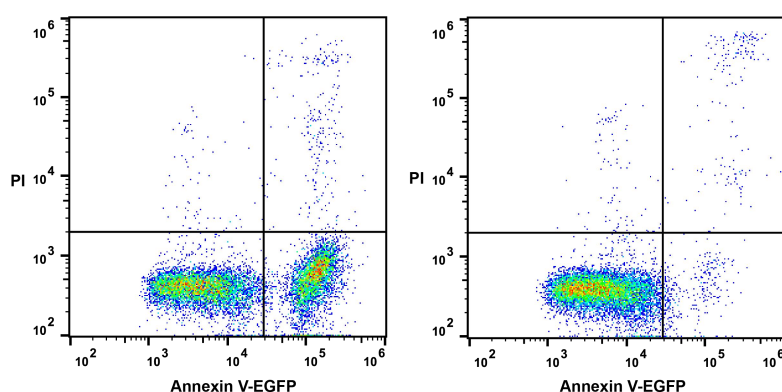
Storage

The lyophilized powder is stable for at least two years when stored at -20°C in the dark after arrival.

Introduction

Elabscience® Annexin V-EGFP Azide-Free Lyophilized Powder is developed for long-term storage and user-defined concentrations of EGFP-conjugated Annexin V. It contains no preservatives like azides or Proclin. Annexin V is a member of the annexin family, which binds to phosphatidylserine (PS) in a calcium-dependent manner. The EGFP-conjugated format of this protein, Annexin V-EGFP, binds specifically to the PS displayed on the outer leaflet of apoptotic cell membrane. The signal of Annexin V-EGFP can be collected with flow cytometry or fluorescence microscopy to detect cell apoptosis.

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



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

Reconstitution

Reconstitute the reagent with sterile deionized water. Make sure the final concentration is less than 1 mg/mL. (This concentration is high enough for stock solution. In our internal tests, working solutions with 1~2 µg/mL Annexin V-EGFP have best results for flow cytometry.) For example, at least 10 µL water should be added to 10 µg Annexin V-EGFP. Otherwise, the lyophilized cake may not be thoroughly soaked in water.

Cautions

1. This kit is for research use only.
2. Detect apoptosis as soon as possible after staining to avoid the increase number of apoptosis or necrosis.
Avoid extended exposure of the samples to direct light to protect the fluorophores from quenching.
3. For your safety and health, please wear the lab coat and disposable gloves before the experiments.

For Research Use Only