CREATIVE BIOMART®
Assay Kit

Annexin V-FITC Apoptosis Kit Plus

Product Information

Cat

Kit-2354

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Product Overview

The Annexin V-FITC Apoptosis Detection Kit Plus is based on the observation that soon after initiating apoptosis, most cell types translocate the membrane phospholipid phosphatidylserine (PS) from the inner face of the plasma membrane to the cell surface. Once on the cell surface, PS can easily be detected by staining with a fluorescent conjugate of Annexin V, a protein that has a strong natural affinity for PS. The one-step staining procedure takes only 10 minutes. In addition, the assay can be directly performed on; Live cells, without the need of fixation. The Annexin V-FITC Apoptosis Detection Kit Plus includes annexin V-FITC, SYTOX green dye, and binding buffer. The SYTOX green dye is impermeant to; Live cells and apoptotic cells, but stains necrotic cells with intense green fluorescence by binding to cellular nucleic acids. After staining a cell population with annexin V-FITC and SYTOX Green dye in the provided binding buffer, apoptotic cells show green fluorescence, dead cells show a higher level of green fluorescence and; Live cells show little or no fluorescence. These populations can easily be distinguished using a flow cytometry with the 488 nm line of an argon-ion laser for excitation. Both annexin V-FITC and SYTOX Green dye emit green fluorescence that can be detected in the FL1 channel, freeing the other channels for the addition of other probes in multi-color labeling experiments.

Applications

Annexin V-FITC kit includes Annexin V-FITC for detecting apoptosis and also propidium iodide (PI) for detecting necrosis.

Storage

4°C

Shipping

Gel Pack

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Kit Components

Annexin V-FITC; SYTOX Green Dye; Binding Buffer

Target Species

Mammalian

Detection method Flow cytometry (Ex = 488 nm; Em = 530 nm).

Features & Benefits

Simple one-step procedure; takes only 10 minutes;
Fast and convenient;
The Annexin VFITC Plus kit includes sytox green dye (instead of PI) which stains necrotic cells with a higher level of green fluorescence than FITC does

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