CREATIVE BIOMART®
Assay Kit

Phosphatidylserine Apoptosis Kit (Blue Fluorescence 405)

Product Information

Cat.No. Kit-0740

Product Overview

Phosphatidylserine Apoptosis Kit (Blue Fluorescence 405) is a fluorescent assay used to monitor cell apoptosis through measuring the translocation of phosphatidylserine.

Description

Annexins are a family of calcium-dependent phospholipid-binding proteins. They are abundant in eukaryotic organisms belonging to a family of ubiquitous cytoplasmic proteins involved in signal transduction. Annexin V"s preferential binding partner is phosphatidylserine (PS), which is usually kept on the inner-leaflet (the cytosolic side) of cell membranes. In apoptosis, PS is transferred to the outer leaflet of the plasma membrane. The appearance of phosphatidylserine on the cell surface is a universal indicator of the initial/intermediate stages of cell apoptosis and can be detected before morphological changes can be observed.

Applications

This kit is a set of tool for monitoring cellular functions, which are designed to monitor cell apoptosis through measuring the translocation of phosphatidylserine.

Usage

For research use only (RUO)

Storage

Keep at 4 °C and avoid exposure to light.

Kit Components

Component A: Apopxin Violet 450 (100X stock solution) 200 μLComponent B: Assay Buffer 50 mLComponent C: 100X Propidium Iodide 100 μL

Detection method Fluorometric

Compatible Sample Types

Cells

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Features & Benefits

Non-Radioactive: No special requirements for waste treatment.Convenient: All essential assay components are included.Optimized Performance: Provide optimal conditions for detecting the translocation of phosphatidylserine.Enhanced Value: Less expensive than the sum of individual components.

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