CREATIVE BIOMART®
Assay Kit

Annexin V-APC/7-AAD Apoptosis Kit

Product Information

Cat.No. Kit-0094

Product Overview

Annexin V-APC/7-AAD Apoptosis Kit is used for apoptosis detection.

Description

Annexin A5 (or Annexin V) is a cellular protein in the annexin group. Annexin A5 is used as a probe to detect cells that have expressed phosphatidylserine (PS) on the cell surface, an event found in apoptosis as well as other forms of cell death. The annexin A5 affinity assay typically uses a conjugate of annexin V and a fluorescent or enzymatic label, biotin or other tags, or a radioelement, in a suitable buffer (annexin V binding to PS is Ca2+ dependent). The assay combines annexin V staining of PS membrane events with the staining of cell nucleus with PI or AAD-7 in living cells to distinguish from dead cells. Annexin V Apoptosis Detection Kit is based on the observation that soon after initiating apoptosis, cells translocate the membrane phosphatidylserine (PS) from the inner face of the plasma membrane to the cell surface. Once on the cell surface, PS can be easily detected by staining with a fluorescent conjugate of Annexin V, a protein that has a high affinity for PS. Detection can be analyzed by flow cytometry or byfluorescence microscopy.

Usage

For research use only (RUO)

Storage

Store the kit at 4°C.

Kit Components

Annexin V-APC: Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. 500 μl7-AAD Viability Staining solution: Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. 500 μlBinding buffer (10X): Store undiluted at 4°C. For long term storage, aliquot and store at -20°C. 30 ml

Detection method Fluorimetric

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Compatible Sample Types

Cell

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