Annexin V-FITC Apoptosis Detection Kit

Cat. No. GTX85591

Applications ICC/IF, FCM

References (7)
Package
100 assay

PRODUCT

Summary

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. The one-step staining procedure takes only 5-15 minutes. Detection can be analyzed by flow cytometry or fluorescence microscopy. The kit can differentiate apoptosis vs necrosis when performing both Annexin V-FITC and PI staining.
Detection method - Flow cytometry (Ex = 488 nm; Em = 530 nm) and fluorescence microscopy
Sample type - Living cells (suspension and adherant)
Species reactivity - Mammalian
Applications - Detect early/middle stages of apoptosis; differentiate apoptosis from necrosis.

Features and Benefits
Simple one step staining procedure in 5-15 minutes
Fast and convenient
Kit can differentiate apoptosis vs necrosis when performing both Annexin V-FITC and PI staining

Kit Contents:
Annexin V-FITC - Formulated in 0.01 M PBS pH 7.4, 150 mM NaCl, 1% BSA and 0.09% sodium azide as a preservative.
1X Binding Buffer - Formulated in 0.01 M PBS pH 7.4, 150 mM NaCl. (Caution: Propidium Iodide Solution is toxigenic and mutagenic; Please handle with care.)
Propidium Iodide (PI) - No preservative added

Other Materials and Solutions Required:
Fluorescence Microscope or Flow Cytometer (Capable of FITC and Propidium Iodide Detection)
Microcentrifuge
Adjustable Pipettors (100-1000 µl, 10-200 µl, and 1-20 µl)
Ice Bucket and Ice
PBS Buffer
Microcentrifuge Tubes

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
ICC/IF	Assay dependent
FCM	Assay dependent

Not tested in other applications.

Properties

Storage Stable when stored dark at 2°-8°C. Do Not Freeze.

For full product information, images and publications, please visit our website.

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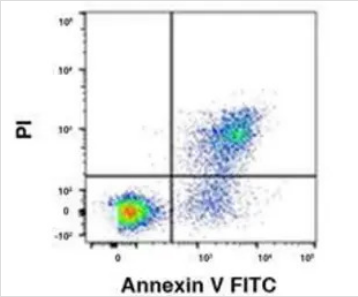
DATA IMAGES



GTX85591 FCM Image

FACS analysis of Jurkat cells treated overnight with 1ug/mL Fas antibody using GTX85591 Annexin V-FITC Apoptosis Detection Kit.
Bottom right quadrant : Viable cells undergoing early apoptosis.
Top right quadrant : Cells that are in late-stage apoptosis.

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