Annexin V-Biotin Apoptosis Detection Kit

Cat. No. GTX85587

Applications ICC/IF

Package
100 assay

PRODUCT

Summary

The Annexin V-Biotin Apoptosis Detection Kit 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 bind to Biotin-conjugated Annexin V, a protein that has a strong natural affinity for PS. Annexin V-Biotin can be detected in conjunction with conventional dye-staining using any streptavidine- or avidin-dye reagents, such as (strept)avidine-fluorescein, -peroxidase, -alkaline phosphatase (AP), and -β-gal, etc.

· Detection method- Flow cytometry (Ex = 488 nm; Em = 530 nm) using 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 30 minutes
· Fast and convenient
· Annexin V-Biotin can be detected in conjunction with conventional dye-staining using any streptavidine- or avidin-dye reagents, such as (strept)avidine-fluorescein, -peroxidase, -alkaline phosphatase (AP), and -β-gal, etc.

Kit Contents:
Annexin V-Biotin
1X Binding Buffer
Propidium Iodide (PI)

Applications

Application Note

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

Suggested dilution	Recommended dilution
ICC/IF	Assay dependent

Not tested in other applications.

Properties

Storage Store at +4ºC. Product has an expected shelf life of 12 months.

Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

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

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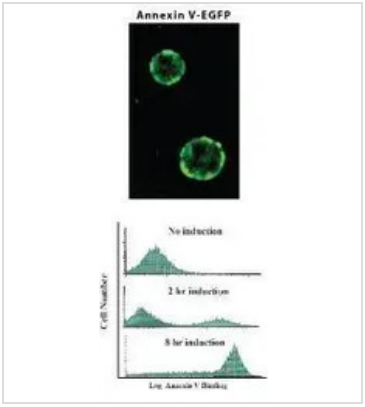
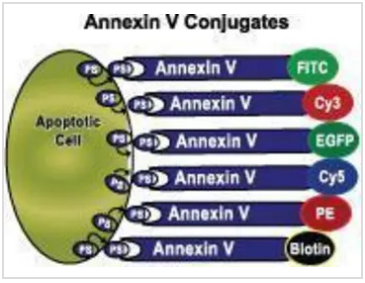
DATA IMAGES



GTX85587 ICC/IF Image

Detection of Apoptosis with Annexin V-EGFP. Apoptosis was induced in Jurkat cells by camptothecin (2 mM) for various times as indicated. Cells were collected and incubated with Annexin V-EGFP for 5 minutes according to the kit instructions. Results were analyzed by fluorescence microscopy (top panel) and flow cytometry (bottom panel).



GTX85587 Image

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