

Annexin V-FITC Apoptosis Detection Kit

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CATALOG #

AAA52735

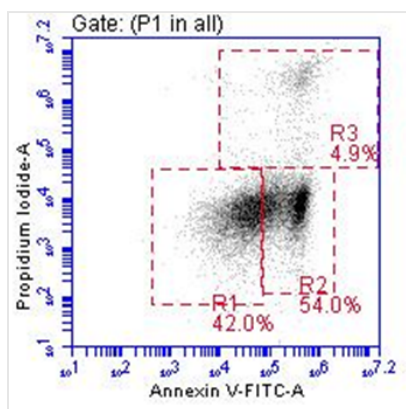
PRODUCT SYNONYMS

Annexin V-FITC Apoptosis; Annexin V-FITC Apoptosis Detection Kit; Annexin V-FITC Apoptosis detection kit

PRODUCT SPECIFICATIONS

Samples	Cell culture
Target	Apoptosis, Exposed phosphatidyl serine
Excitation/Emission	488 nm / 530 nm
Reagent	Annexin V-FITC
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Application Data

Analysis of apoptosis-positive cells stained with Annexin V-FITC and PI.

ADDITIONAL INFORMATION

Related Product Information for Annexin V-FITC Apoptosis detection kit	Description: Detect apoptosis and membrane permeability with the Annexin V-FITC Apoptosis Assay Kit. This in vitro apoptosis assay employs the green fluorescent Annexin V-FITC reagent to label exposed phosphatidylserine in cultured cell samples. Detect membrane compromised cells, a trademark of late apoptosis or cell necrosis, with the live/dead stain, propidium iodide. Analyze the fluorescent signals by flow cytometry. Background: Annexin V is a member of a calcium and phospholipid binding family of proteins with vascular anticoagulant activity. Results from in vitro experiments indicate that it may play a role in the inhibition of blood coagulation by competing for phosphatidylserine (PS) binding sites with prothrombin. In healthy cells, PS is usually kept in the inner-leaflet (the cytosolic side) of the cell membrane. When a cell undergoes apoptosis, one of the earliest detectable indicators is the loss of membrane asymmetry. No longer restricted to the cytosolic part of the membrane, PS is translocated to the outer-leaflet and becomes exposed on the surface of the cell. With our Annexin V-FITC Apoptosis Assay Kit, ImmunoChemistry Technologies provides a proven method for quickly and easily distinguishing two populations of dying cells from viable cells using Annexin V-FITC and Propidium Iodide (PI) reagents. Cells in the early stages of apoptosis with intact cell membranes and surface -exposed PS will stain positive for Annexin V-FITC. PI is included in the apoptosis assay kit to identify late apoptotic and necrotic cells, which have lost plasma membrane integrity. These cells will become dually labeled with Annexin V-FITC and Propidium Iodide (green and red fluorescence). Live cells with intact plasma membranes will exclude PI and will remain unstained by the Annexin V-FITC probe, assuming no treatment or cell cycle-associated event temporarily exposes the normally internalized, negatively charged PS entity. The kit also includes a specially formulated, calcium-based binding buffer, which is required for Annexin V binding to occur.
Product Categories/Family for Annexin V-FITC Apoptosis detection kit	Apoptosis

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/detection-kits/annexin-v-fitc-apoptosis/52735>