

Annexin V (FITC) / PI Apoptosis Detection Kit

Catalogue No.: abx090601

Annexin V 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 V 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 the cell nucleus with PI or AAD-7 to distinguish living cells from dead cells. Annexin V apoptosis detection is based on the observation that soon after initiating apoptosis, cells translocate the membrane phosphatidylserine (PS) from the inner (cytoplasmic-facing) leaflet 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 by fluorescence microscopy.

This kit contains:

Component	100 tests	200 tests
Annexin V (FITC)	500 µl	1 ml
Annexin V Binding Buffer (10X)	11 ml	2 × 11 ml
PI	500 µl	1 ml

Target: Annexin V

Reactivity: General

Conjugation: FITC

Excitation/Emission: 499/515

Laser Line: 488

Storage: Store at at 2-8°C in the dark.

Validity: 12 months

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.