

Annexin V-FITC/PI Apoptosis Assay kit

Packing specification

Product number: PI0020, PI0050, PI0100

Specifications: 20T, 50T, 100T

Storage conditions

Stored at 4°C, valid for one year

Reagents:

| Reagents | 20 assays | 50 assays | 100 assays | Storage |
|-----------------------|-----------|-----------|------------|-----------------|
| Annexin V-FITC | 100 μΙ | 250 μΙ | 500 μl | 4°C in the dark |
| product code:AF001 | | | | |
| Propidium Iodide, PI | 200 μΙ | 500 µl | 1000 µl | 4°C in the dark |
| product code:PP002 | | | | |
| Binding Buffer (4×) | 4 ml | 10 ml | 20 ml | 4°C |
| product code:BB002 | | | | |

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Annexin V is a product of human origin; handle as if capable of transmitting infectious agents.

Preparation Instructions

Allow all kit components to reach room temperature before use.

Prepare 1× Binding Buffer by diluting 1 ml of the 10× Binding Buffer with 9 ml of deionized water.

Dissolve the staurosporine in DMSO to a concentration of 100 µg/ml.

Procedure

This procedure describes the induction of apoptosis in the Jurkat cell line, followed by measurement of phosphatidylserine. Perform the experiment using aseptic technique.

- 1. Induce apoptosis in a 1 x 10^6 cells/ml suspension of Jurkat cells by the addition of 1 μ g/ml staurosporine.
- 2. Establish a control of non-induced Jurkat cells at 1 x 10^6 cells/ml for a zero time data point.
- 3. Incubate both Jurkat cell cultures for 1–2 hours in a 37 °C, 5% CO₂ incubator.
- 4. Wash the cells twice with DPBS.
- 5. Resuspend the cells in 1× Binding Buffer at a concentration of ~1 x 10^6 cells/ml.
- 6. Add 500 μ l of the apoptotic cell suspension to a plastic 12 × 75 mm test tube.
- 7. Add 500 μ l of the non-induced cell suspension to a second plastic 12 × 75 mm test tube.
- 8. Add 5 µl of Annexin V FITC Conjugate and 10 µl of Propidium Iodide Solution to each cell suspension.
- 9. Incubate the tubes at room temperature for exactly 10 minutes and protect from light.
- 10. Determine the fluorescence of the cells immediately with a flow cytometer. Cells, which are early in the apoptotic process, will stain with the Annexin V FITC Conjugate alone. Live cells will show no staining by either the Propidium Iodide Solution or Annexin V FITC Conjugate. Necrotic cells will be stained by both the Propidium Iodide Solution and Annexin V FITC Conjugate.

It can only be used for scientific research. It is forbidden to use it for human,

animal or other purposes.