

DATA SHEET

Version: 03
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1. Identification

Product name

Annexin V-FITC Apoptosis Detection Kit

100 assays

Cat. No:**CA011**

2. Description

Annexins are a family of calcium-dependent phospholipid-binding proteins, which bind to phosphatidylserine (PS).

Externalization of phosphatidylserine residues on the outer plasma membrane of apoptotic cells allows detection via Annexin V. Once the apoptotic cells are bound with labelled Annexin V, they can be visualized with fluorescent microscopy or cytometry.

Since loss of membrane integrity is a pathognomonic feature of necrotic cell death, necrotic cells will stain with specific membrane-impermeant nucleic acid dyes such as propidium iodide, the membrane integrity of apoptotic cells can be demonstrated by the exclusion of these dyes.

3. Composition

| Item | Quantity |
|------------------------|----------|
| Labeled Annexin V-FITC | 500 µL |
| Binding Buffer (10X) | 50 ml |
| Propidium iodide | 1 mL |

Caution! Propidium iodide is a suspected carcinogen; contact with eyes, skin, and mucous membranes should be avoided. Always wear proper protective clothing and gloves when handling the solution.

4. Storage specifications

All components should be stored at 4 °C.
Protect from light and do not freeze.

5. Applications

- Detect early/middle stages of Apoptosis.
- Differentiate apoptosis from necrosis.



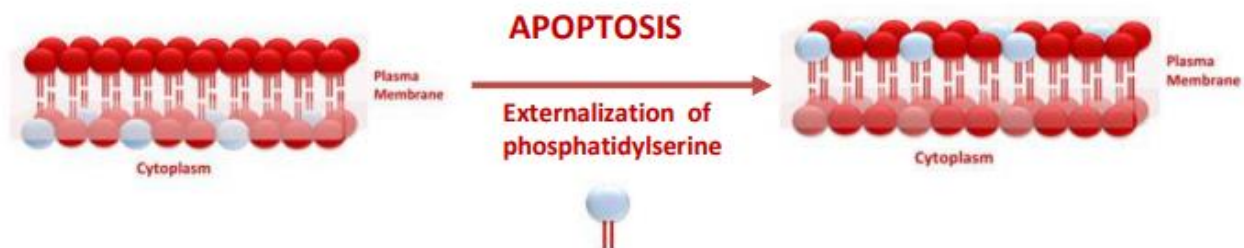
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6. Recommended Assay Procedure

1. Dilute the Binding Buffer (10X) with dH₂O to 1X and keep on ice.
2. Collect cells of interest by centrifugation. Wash cells with ice-cold culture medium or PBS.
3. Resuspend cells in 1X Binding Buffer at a concentration of 1-5 x 10⁶ cells/ml.
4. Transfer 500 µl of cell suspension in a 5 ml test tube.
5. Add 5 µl of labeled- Annexin V-FITC.
6. Add 10 µl of Propidium Iodide Solution.
7. Gently vortex the cells and incubate for 15 min at room temperature (25°C) in the dark.
8. Wash cells in 1X Binding Buffer and resuspend in 400 µl of 1X Binding Buffer.
9. Analyze by flow cytometry with proper machine settings.



7. Further information

Product Use Limitations

This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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