Store at 4°C

Annexin V- APC (PI) Apoptosis Analysis Kit

Catalog Number	Vial Size
AO2001-11P-G	25 tests
AO2001-11P-H	100 tests

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Important Note: Each Buffer should be diluted by using the same pH PBS as mentioned below.
This product is guaranteed up to one year from purchase.

Description

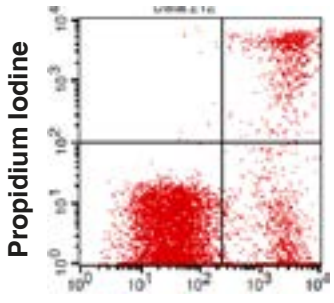
Annexin V (or Annexin A5) is a member of the annexin family of intracellular proteins that binds to phosphatidylserine (PS) in a calcium-dependent manner. PS is normally only found on the intracellular leaflet of the plasma membrane in healthy cells, but during early apoptosis, membrane asymmetry is lost and PS translocates to the external leaflet. Fluorochrome-labeled Annexin V can then be used to specifically target and identify apoptotic cells.

Annexin V Binding Buffer is recommended for use with Annexin V staining

Products List

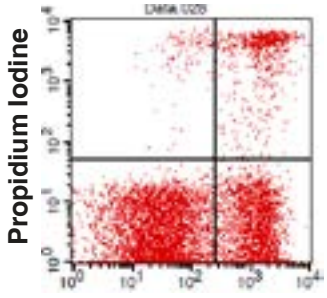
AO2001-11	Annexin V-APC	Keep as concentrated solution. Store at 4°C and protected from prolonged exposure to light. Do not freeze.
AO2002	Propidium Iodide solution	Keep as concentrated solution. Store at 4°C and protected from prolonged exposure to light. Do not freeze.
AB2000	Annexin V Binding Buffer	Keep as concentrated solution. Store at 4°C as an undiluted liquid. For extended storage aliquot contents and freeze at -20°C.

Illustration of Immunofluorescent Staining



Annexin V-APC

Jurkat Cell stained with Annexin V- APC and PI



Annexin V-APC

Camptothecin treated Jurkat Cell stained with Annexin V- APC and PI

Suggested Staining Protocol

1. Dilute 3 mL 10× binding buffer with 27 mL distilled water for 10 tests.
2. Harvest cell (about 1×10^6 cells per test) then wash with cold PBS.
3. Suspend cells in 1 mL 1× Binding Buffer, 300×g centrifugation for 10 minutes, then remove the Binding Buffer from the cell pellet.
4. Resuspend cells in 1 mL 1× Binding Buffer , adjust cell concentration to 1×10^6 cells/mL.
5. Add 100 µL of cells (1×10^5 cells) to each labeled tube.
6. Add 5 µL of Annexin V-APC to appropriate tubes.
7. Gently vortex each tube and incubate for 10 minutes in room temperature, protected from light.
8. Add 5 µL PI solution incubation for 5min in room temperature, protected from light.
9. Add PBS to 500µL and vortex gently.
10. Analyze by flow cytometry in 1 hour.

References

[1] Fadok,V.A.et al.1992.J.Immunol.148:2207.
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[4] Tiagarajan,P.,et al.1990.J.Biol.Chem.265:17420.
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