

Annexin V-APC



天津三箭生物技术股份有限公司
Tianjin Sungene Biotech Co., Ltd.
精准 高效 稳定 Precision Efficient Stable

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

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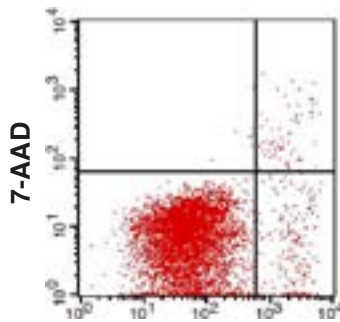
Important Note: Each Buffer should be diluted by using the same pH PBS as mentioned below.
This product is guaranteed up to one year from purchase.

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.

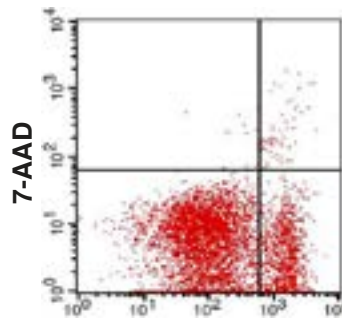
Annexin V Binding Buffer is recommended for use with Annexin V staining.

Illustration of Immunofluorescent Staining



Annexin V-APC

Jurkat Cell stained with Annexin V-APC and 7-AAD



Annexin V-APC

Camptothecin treated Jurkat Cell stained with Annexin V-APC and 7-AAD

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 μ L of cells (1×10^5 cells) to each labeled tube.
6. Add 5 μ L 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 μ L PI or 7-AAD solution incubation for 5min in room temperature, protected from light.
9. Add PBS to 500 μ L and vortex gently.
10. Analyze by flow cytometry in 1 hour.

Product Information

Conjugation: APC

Formulation: PBS pH 7.2, 0.09% NaN₃

Storage: Keep as concentrated solution. Store at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Application: Recommended Application: FC
Other Applications (For the relevant formats):
Immunohistochemistry

Usage: Each lot of this reagent is quality control tested by immunofluorescent staining with flow cytometric analysis (The amount of the reagent is suggested to be used 5 μ L/ 10^5 cells). Since applications vary, the appropriate dilutions must be determined for individual use.

References

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- [2] Tait, J.F., et al. 1989. J. Biol. Chem. 264:7944.
- [3] Andree, H.A., et al. 1990. J. Biol. Chem. 265:4923.
- [4] Tiagarajan, P., et al. 1990. J. Biol. Chem. 265:17420.
- [5] Dachary, P.J., et al. 1993. Blood 81:2554.
- [6] Koopman, G., et al. 1994. Blood 84:1415.
- [7] Martin, S.J., et al. 1995. J. Exp. Med. 182:1545.
- [8] Wood, B.L., et al. 1996. Blood 88:1873.

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