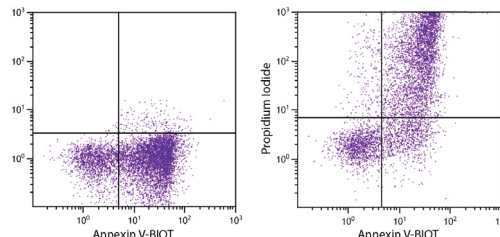


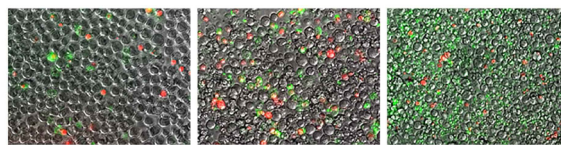


ApoScreen® Annexin V

Cat. No.	Format	Size
10039-01	Purified (UNLB)	0.1 mg
10039-02	Fluorescein (FITC)	100 tests
10039-08	Biotin (BIOT)	100 tests



Day old BALB/c mouse splenocytes were stained with Annexin V-BIOT (SB Cat. No. 10039-08) with and without Propidium Iodide (SB Cat. No. 10044-01) followed by Streptavidin-FITC (SB Cat. No. 7100-02).



Human T lymphocyte cell line Jurkat was stained with ApoScreen® Annexin V-FITC (SB Cat. No. 10039-02) and ApoScreen® 7-Aminoactinomycin D (7-AAD; SB Cat. No. 10042-01) at varying stages of apoptosis. Green - Annexin V-FITC 7-AAD - Red

Description

ApoScreen® Annexin V (SB Cat. No. 10039) is a recombinant protein that is expressed in eukaryotic cells. A number of changes in cell structure occur during apoptosis. One major change is the loss of membrane phospholipid asymmetry, with translocation of phosphatidylserine (PS) from the inner leaflet of the phospholipid bilayer to the external surface. Annexin V, a member of the annexin family of calcium-dependent phospholipid binding proteins, has a high affinity for phosphatidylserine (PS)-containing phospholipid bilayers. Conjugated Annexin V can be used to monitor changes in cell membrane phospholipid asymmetry, thereby providing a convenient tool for detection of apoptotic cells.

Applications

FC – Quality tested ¹
ICC ²

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	10 μ L/ 10^6 cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μ L of ApoScreen® Annexin Binding Buffer (SB Cat. No. 10045-01)	
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

Suggested Staining Protocol

- Wash cells twice in cold PBS
- Resuspend cells in cold 1X ApoScreen® Annexin Binding Buffer (SB Cat. No. 10045-01) to a concentration of 1×10^6 cells/mL
- Add 100 μ L of cell suspension to 5 mL polystyrene round bottom tubes
- Add 10 μ L of conjugated ApoScreen® Annexin V
- Gently vortex each tube and incubate for 15 minutes at 2-8°C and protected from light
- Without washing, add ~380 μ L of cold 1X ApoScreen® Annexin Binding Buffer to each tube
- Add 10 μ L of ApoScreen® 7-Aminoactinomycin D (7-AAD; SB Cat. No. 10042-01) or ApoScreen® Propidium Iodide (SB Cat. No. 10044-01)
- Analyze by flow cytometry immediately

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Handling and Storage

- The purified (UNLB) ApoScreen® Annexin V is supplied as 0.1 mg of purified recombinant protein lyophilized from PBS and 1 mM EDTA. Store material at -20°C prior to reconstitution. Reconstitute with 1.0 mL of dH₂O. Store reconstituted material at 2-8°C.
- The fluorescein (FITC) ApoScreen® Annexin V conjugate is supplied as 100 tests in 1.0 mL of ApoScreen® Annexin V Binding Buffer. Store at 2-8°C.
- The biotin (BIOT) ApoScreen® Annexin V conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

1. Peterson LF, Mitrikeska E, Giannola D, Lui Y, Sun H, Bixby D, et al. p53 stabilization induces apoptosis in chronic myeloid leukemia blast crisis cells. *Leukemia*. 2011;25:761-9. (FC)
2. SouthernBiotech published data (ICC)

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