

Annexin V-Biotin Reagent

CATALOG #:	1003-100	100 µg
	1003-1000	1 mg
FORMULATION:	0.5 mg/ml of Annexin V-Biotin in PBS containing 1% BSA and 0.02% Proclin 300.	
STORAGE CONDITIONS:	Store at 4 °C. Do not freeze.	
SHELF LIFE:	1 year under proper storage conditions	
PURITY:	> 95% by SDS-PAGE	

DESCRIPTION:

Reagent for detecting early stages of apoptosis. During apoptosis, phosphatidylserine (PS) is translocated from the cytoplasmic face of the plasma membrane to the cell surface. Annexin V has a strong, Ca²⁺-dependent affinity for PS and therefore is used as a probe for detecting apoptosis. The biotin-conjugated Annexin V reagent can be visualized after binding to avidin-FITC or other tags.

QUALITY CONTROL:

Apoptosis was induced in Jurkat cells by Human Fas monoclonal antibody (200 ng/ml; clone CH-11) for 8 hr. Functional binding of Annexin V-Biotin to the externalized phosphatidylserine (PS) of apoptotic cells was determined by reacting with Avidin-FITC. Cells were collected by centrifugation, resuspended in 500 µl of 1X Annexin V Binding Buffer (Cat.#: 1035-100), and incubated with or without 1 µl of Annexin V-Biotin for 10 min. Cells were washed two times with 1X Annexin V Binding Buffer, then incubated with Avidin-FITC for 10 min. Only the cells that have incubated with Annexin V-Biotin were stained with Avidin-FITC as analyzed by fluorescence microscopy.

REFERENCES:

1. Koopman, G., *et al.* (1994) *Blood* **84**:1415-1420.
2. Martin, S. J., *et al.* (1995) *J. Exp. Med.* **182**:1545-1556.

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

Annexin V-PE-Cy5 Apoptosis Detection Kit (Cat. No. K129)
Annexin V-EGFP Reagent (Cat. No. 1004)
Annexin V-FITC Reagent (Cat. No. 1001)
Annexin V-Cy5 Reagent (Cat. No. 1013)
Annexin V-Cy3 Reagent (Cat. No. 1002)
Annexin V-PE Reagent (Cat. No. 1014)
Annexin V Antibody (Cat. No. 3357)
Annexin V-PE-Cy5 Reagent (Cat. No. 1015)
Annexin V, GST Tag, Human Recombinant (Cat. No. P1472)
Annexin V-Biotin Apoptosis Kit (Cat. No. K109)