

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:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

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- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

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- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

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- CETP Activity Assay & Drug Discovery Kits
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- 20 Minutes Gel Staining/Destaining Kit
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