

Annexin V-Biotin Reagent

CATALOG #: 1003-100 100 µg
1003-1000 1 mg

LOT #: _____

FORMULATION: 0.5 mg/ml of Annexin V-Biotin in PBS containing 1% BSA and 0.02% thimerosal.

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

Cell Fractionation System

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

Cell Proliferation & Senescence

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

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies