## **ANNEXIN V**

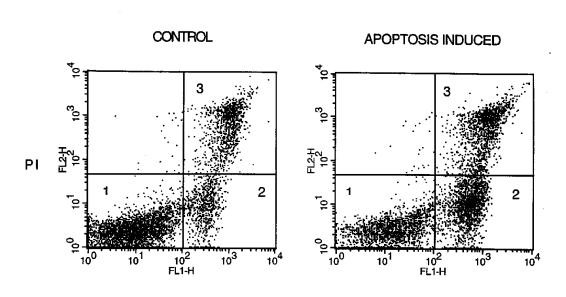
## Protocol modified from Stefania Morrone

Dept. Experimental Medicine & Pathology
University " La Sapienza"
Rome

mailto:asantoni@axcasp.caspur.it

## Basic protocol/Methodology

- 1. Wash 2x 1x10<sup>6</sup> cells with PBS
- 2. Dilute FITC-Annexin V at a concentration of 1mg/ml in binding buffer and resuspend cells in 1 ml of this solution (prepare fresh each time).
- 3. Incubate 10 min in the dark at RT.
- 4. Add to the cell suspension 0.1ml of PI solution prior to analysis to give final concentration of 1mg/ml.
- 5. Analyze cells by flow cytometry
- Collect 10,000 events/sample.
- Exclude debris by FW vs. SS gating
- Display data as two-color dot plot with FITC-Annexin V (green fluorescence, X-axis) vs. PI (red fluorescence, y-axis).



FITC - ANNEXIN V

- 1. Live cells
- 2. Early apoptotic cells
- 3. Late apoptotic or necrotic cells

## **Other Staining Methods**

Annexin V-PE is typically used in conjunction with a vital staining dye such as 7-Amino-actinomycin to allow investigators to detect early apoptotic cells (Annexin V-PE positive, 7AAD negative). For example cells that are viable are Annexin V-PE and 7AAD negative; cells that are in early apoptosis are Annexin V-PE positive and 7AAD negative and cells that are in late apoptosis or already dead are both Annexin V-PE positive and 7AAD positive. The movement of cells through these stages suggests apoptosis.