
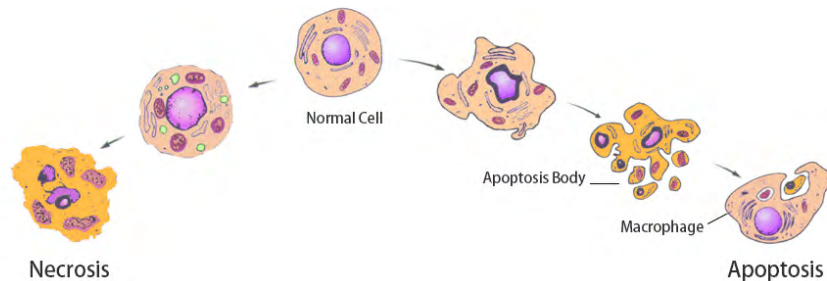


# Quick and Reliable Detection of Apoptosis

Annexin V Apoptosis Detection Kits

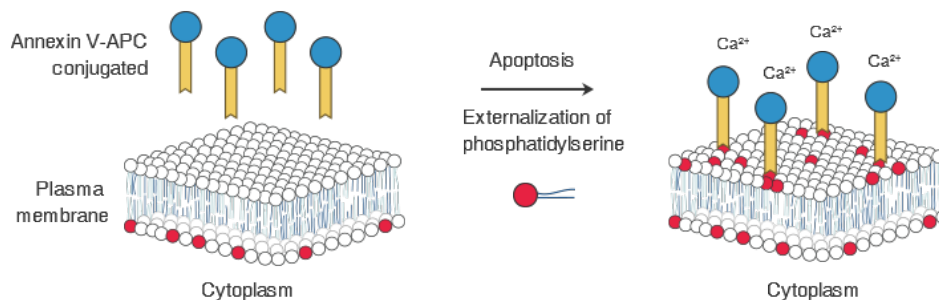
**Elabscience®**

 Apoptosis occurs like a signaling cascade of multiple events, providing many opportunities to evaluate the process. During the early stage of apoptosis, the loss of cell membrane asymmetry will take place in which embedded phosphatidylserine (PS) residues in the plasma membrane become externalized. This event precedes DNA fragmentation. Accordingly, it is suitable for detecting early apoptosis. Besides, fixation is not needed in this detection and correlated false positive could be avoided to guarantee a reliable experiment outcome. So far, Annexin V-based assays have been the most ideal method for quantitative apoptosis detection.



## // Annexin V Detection Kits in Flow Cytometry

In apoptotic cells, the membrane phospholipid PS is translocated from the inner to the outer leaflet of the plasma membrane. Annexin V is a  $\text{Ca}^{2+}$  dependent phospholipid-binding protein that has a high affinity for PS. Flow assays based on Annexin V conjugates accordingly become sensitive quantitative detection of early apoptosis.



## // Advantages of Elabscience® Annexin V Apoptosis Detection kits

1. Multiple fluorescence labels (FITC, PE, APC, AF647/PI, 7-AAD) for various specimens and instruments.
2. All kit components ready for sale to provide tailored experiment solution.
3. Ideal for early apoptosis detection and no fixation-related false positive.
4. Quick and easy detection, only 15-20 min hand-on time.
5. Strict and reliable quality control for better experiment outcome.
6. Professional customer service for technical support.

## Annexin V Apoptosis Detection Product List

### // Annexin V Apoptosis Detection Kits

| Product Name                                  | Cat Number | Size            |
|---|------------|-----------------|
| Annexin V-FITC/PI Apoptosis Detection Kit     | E-CK-A211  | 50T/ 100T/ 200T |
| Annexin V-FITC/7-AAD Apoptosis Detection Kit  | E-CK-A212  | 50T/ 100T/ 200T |
| Annexin V-AF647/PI Apoptosis Detection Kit    | E-CK-A213  | 50T/ 100T/ 200T |
| Annexin V-AF647/7-AAD Apoptosis Detection Kit | E-CK-A214  | 50T/ 100T/ 200T |
| Annexin V-PE/7-AAD Apoptosis Detection Kit    | E-CK-A216  | 50T/ 100T/ 200T |
| Annexin V-APC/PI Apoptosis Detection Kit      | E-CK-A217  | 50T/ 100T/ 200T |
| Annexin V-APC/7-AAD Apoptosis Detection Kit   | E-CK-A218  | 50T/ 100T/ 200T |

### ■ Annexin V Conjugates and Dead Cell Dyes

| Product Name                            | Cat Number | Size                  |
|---|------------|-----------------------|
| Annexin V-FITC                          | E-CK-A111  | 50T /100T/ 200T/ 500T |
| Annexin V-AF647                         | E-CK-A113  | 50T /100T/ 200T/ 500T |
| Annexin V-PE                            | E-CK-A115  | 50T /100T/ 200T/ 500T |
| Annexin V-APC                           | E-CK-A117  | 50T /100T/ 200T/ 500T |
| Annexin V Binding Buffer(10 ×)          | E-CK-A151  | 10 mL/ 50 mL          |
| Propidium Iodide (PI) Staining Solution | E-CK-A161  | 50T /100T/ 200T/ 500T |
| 7-AAD Viability Staining Solution       | E-CK-A162  | 50T /100T/ 200T/ 500T |

### ▲ Recombinant Annexin V Protein

| Product Name  | Cat Number | Size                       |
|---|------------|----------------------------|
| Recombinant Human ANXA5/Annexin V/Annexin A5 Protein(His tag) | PKSH033460 | 50 μg/ 100 μg/ 500 μg/ 1mg |

### ◆ Excellent Performance of Annexin V-FITC/PI Apoptosis Detection Kit in Distinguishing Live/Apoptotic/Dead Cells

Jurkat cells were treated with 1 μM Camptothecin (Left) or not (Right) for 4 h. Annexin V-FITC single-positive cells were early apoptotic cells, Annexin V-FITC and PI double-positive cells were necrotic or late apoptotic cells, and PI single-positive cells were nude nuclear cells.

