Elabscience®

Annexin V Apoptosis Kit

Early in apoptosis, before the loss of membrane integrity, PS translocates from the inner to the outer leaflet of the plasma membrane, exposing it to the external cellular environment at the surface of the plasma membrane. Annexin V is a 35-36 kDa, calcium-dependent, phospholipid-binding protein with a high affinity for PS and is used to indirectly monitor PS translocation. Elabscience® Annexin V Apoptosis Detection Kits have 15 fluorochrome and 3 nucleic acid dyes for multiple research requirements.

Elabscience® Fluorescent Dyes

Dye	Laser	Bandpass	Excitation/Emission
Annexin V-EV450	Violet(405 nm)	450/50	650/670
Annexin V-EGFP	Blue(488 nm)	530/30	488/510
Annexin V-AF488	Blue(488 nm)	530/30	495/520
Annexin V-FITC	Blue(488 nm)	530/30	650/780
Annexin V-EV500	Violet(405 nm)	530/30	425/500
Annexin V-PE	Blue(488 nm), Yellow(561 nm)	572/28	495,565/575
Annexin V-PE/TR	Blue(488 nm), Yellow(561 nm)	615/20	495,565/575
Annexin V-AF647	Red(633 nm)	575/30	650/670
Annexin V-APC	Red(633 nm)	575/30	650/660
Annexin V-Cyanine5	Red(633 nm)	575/30	650/670
Annexin V-PE/Cyanine5	Blue(488 nm), Yellow(561 nm)	572/28	495,565/575
Annexin V-PE/Cyanine5.5	Blue(488 nm), Yellow(561 nm)	675/30	495,565/575
Annexin V-ER780	Red(633 nm)	780/60	625/765
Annexin V-APC/Cyanine7	Red(633 nm)	780/60	650/780
Annexin V-PE/Cyanine7	Blue(488 nm), Yellow(561 nm)	780/60	495,565/575

Product features

- **Multiple Choices**: 15 fluorochromes × 3 viability nucleic acid dyes.
- **High Accuracy**: Ideal for early apoptosis detection and no fixation-related false positive.
- **Quick & Simple Operation**: Only 15-20 min.
- **High Flexibility**: Good performance under the extreme conditions such as more than one million cells per test.
- **Cost Effective**: 1 assay can be used as 2 assays at least.

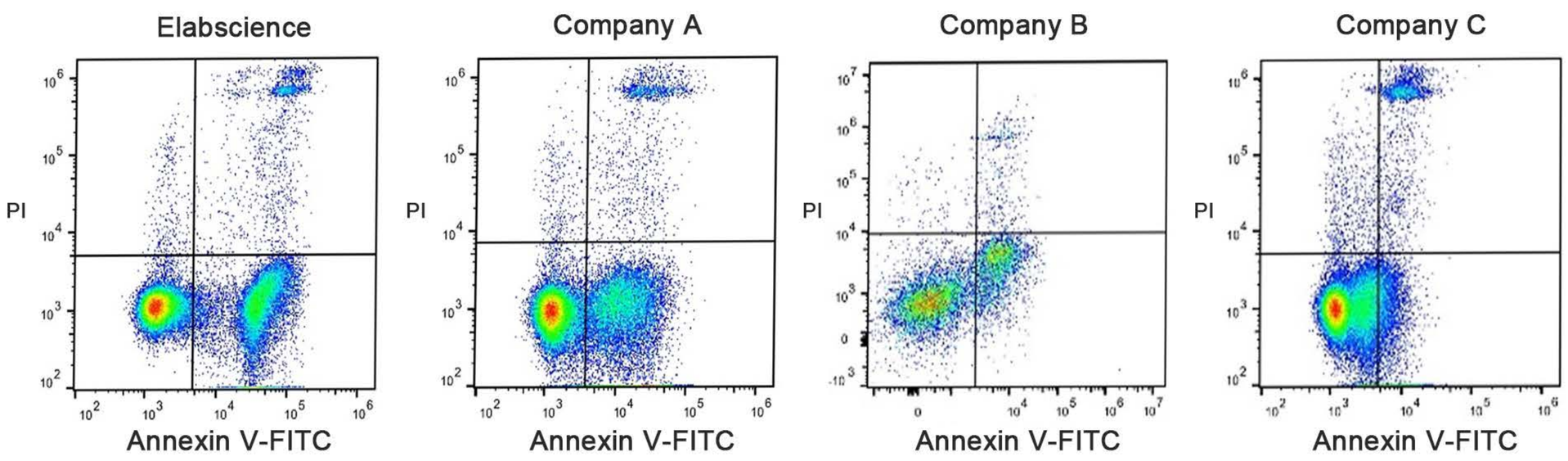

Fig.1 Jurkat cells (1x10^6 cells/mL) were induced to undergo apoptosis with camptothecin (5 μM camptothecin, 4 h) and detected with Annexin V-FITC/PI from different companies according to the protocol provided.

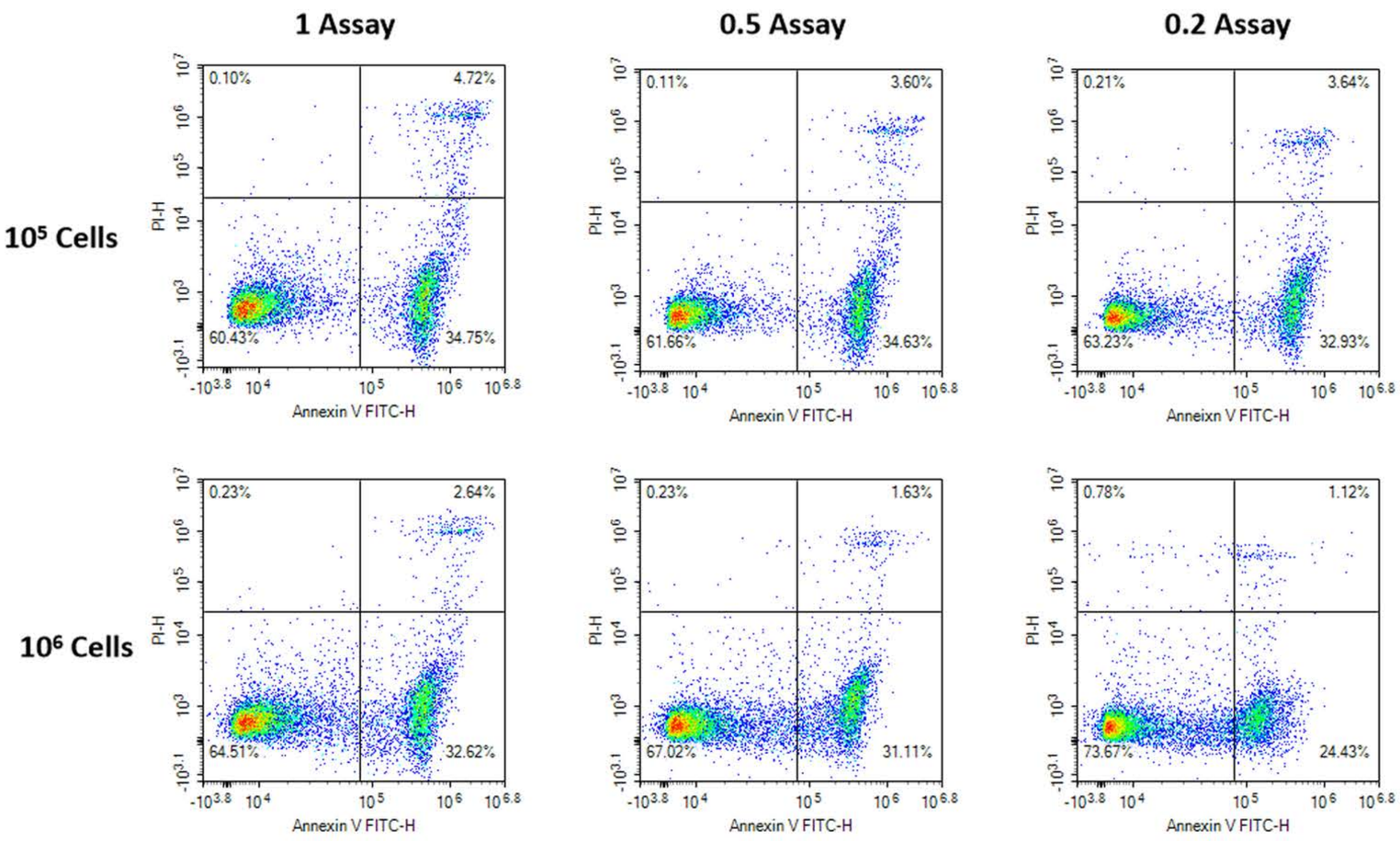

Fig.2 Jurkat cells at different density (1x10^6 cells/mL or 1x10^5 cells/mL) were induced to undergo apoptosis with camptothecin (5 μM camptothecin, 4 h) and detected with 1 Assay or 1/5 assay Annexin V-FITC/PI (E-CK-A211) from different companies according to the protocol provided. The result shows that the negative and positive cell populations are separated from each other clearly.

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