



FineTest®

# Annexin V-FITC/PI Apoptosis Kit



Cat NO.	Product Name
K018	Annexin V-EGFP/PI Apoptosis Kit
K019	Annexin V-FITC/PI Apoptosis Kit
K070	Annexin V-EGFP/7-AAD Apoptosis Kit
K071	Annexin V-FITC/7-AAD Apoptosis Kit
K072	Annexin V-APC/7-AAD Apoptosis Kit
K073	Annexin V-PE/7-AAD Apoptosis Kit

Cat NO.	Product Name
K074	Annexin V-FineTest®488/PI Apoptosis Kit
K075	Annexin V-FineTest®488/7-AAD Apoptosis Kit
K076	Annexin V-FineTest®647/PI Apoptosis Kit
K077	Annexin V-FineTest®647/7-AAD Apoptosis Kit
K078	Annexin V-APC/PI Apoptosis Kit

## Advantages

### 01 High Accuracy

No need to fix the cell samples, which can effectively avoid false positives, and the negative-positive grouping is more significant.

### 02 Excellent Stability

Stored at 2-8 °C for 12month, the activity of the kit can maintain 98%.

### 03 Rapid Experiment

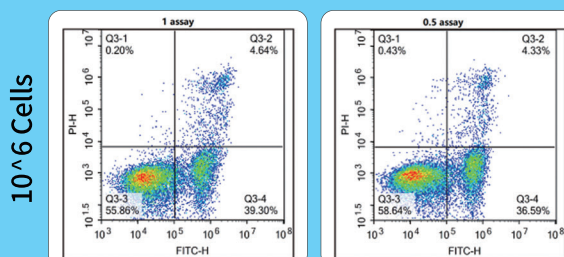
In one-step or two-step, staining can be completed in about 15 min.

### 04 Short Lead Time

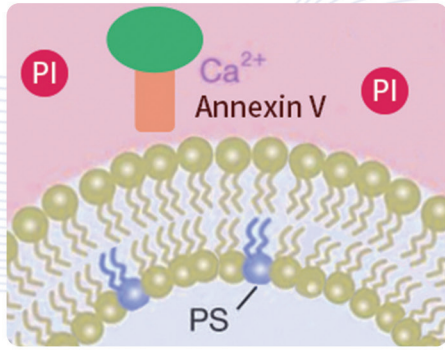
Self-developed, large inventory, next-day delivery

### 05 More cost-effective

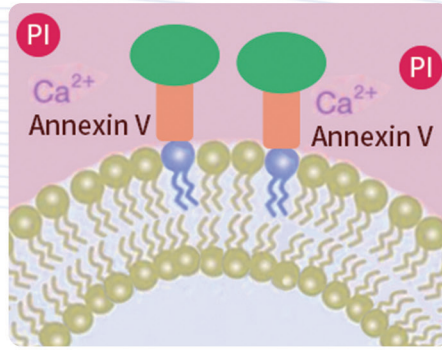
Using half reagent doses for staining can still get good results: Flow cytometry analysis with Jurkat cells ( $1 \times 10^6$ ) treated with 5  $\mu$ M camptothecin for 4 hours, stained with K019 1 assay (Left) and 0.5 assay (Right) respectively.



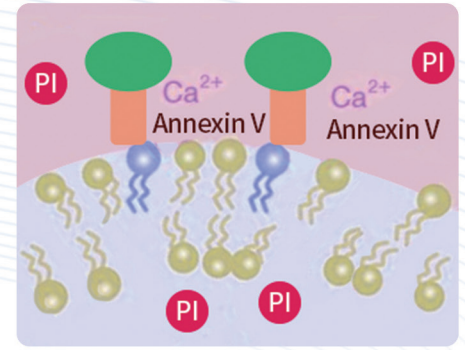
Annexin V is the indicator for detecting early cell apoptosis, which has a high affinity for PS (phosphatidylserine). In the early apoptosis, PS flips from the inner side of the lipid bilayer of the cell membrane to the outer side. Recombinant Annexin V coupled with fluorescein was used to detect PS on the surface of cell membranes. In the late apoptosis, PI (Propidium Iodide) can stain the nucleus red (except normal cells) after entering the cell membrane. So cells at different stages of apoptosis can be grouped by staining with the combination of Annexin V labeled FITC/EGFP and PI.



(Normal)



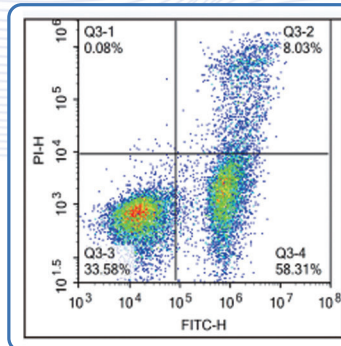
(Early apoptosis)



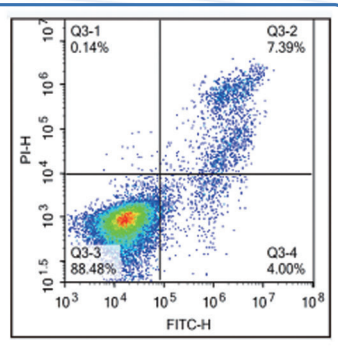
(Late apoptosis)

## Results

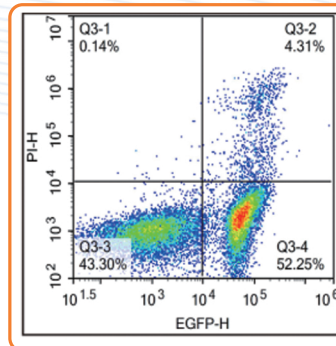
Flow cytometry analysis with Jurkat cells treated with 5  $\mu$ M camptothecin for 4 hours (Fig1,2) and untreated (Fig3,4), stained with the kit (K019, K018) respectively.



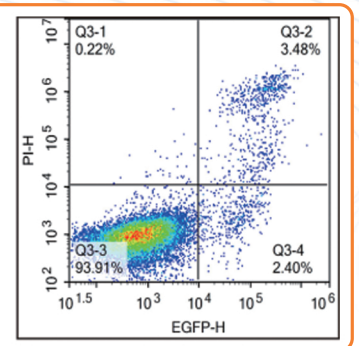
(Fig1)



(Fig3)



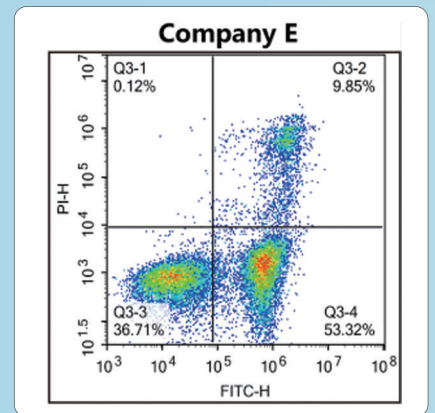
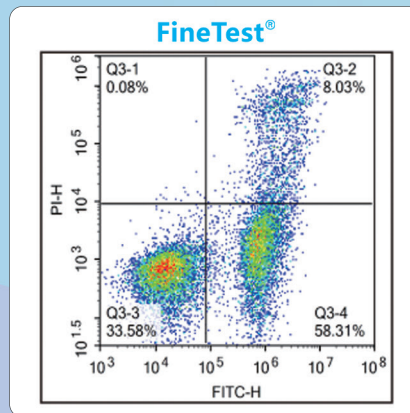
(Fig2)



(Fig4)

## Comparison

Flow cytometry analysis with Jurkat cells ( $5 \times 10^5$ ) treated with 5  $\mu$ M camptothecin for 4 hours, stained with FineTest (K019, Left) and Company E (Right) respectively.



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