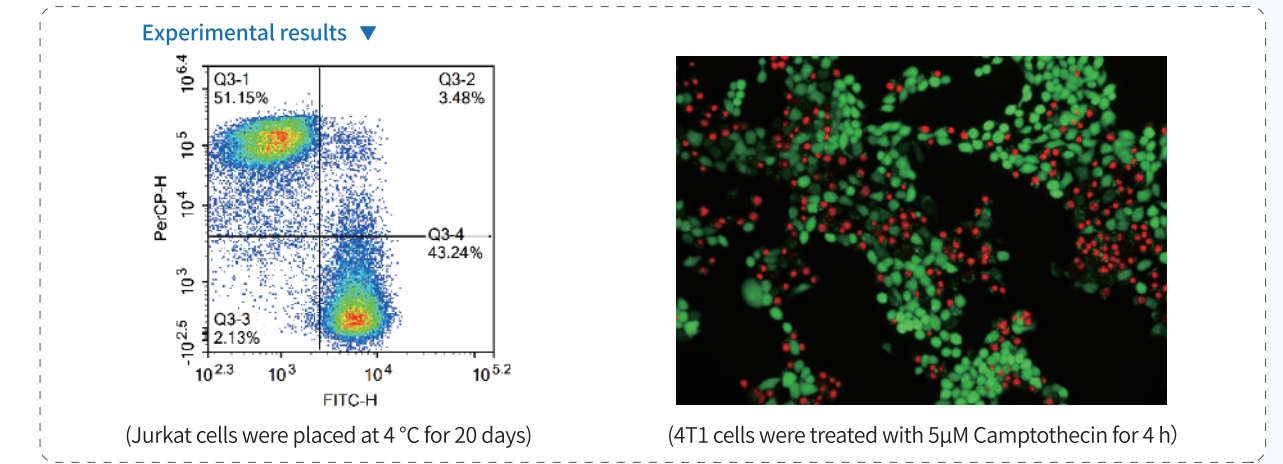


Cell Proliferation /Cytotoxicity/Viability  
Detection Assays

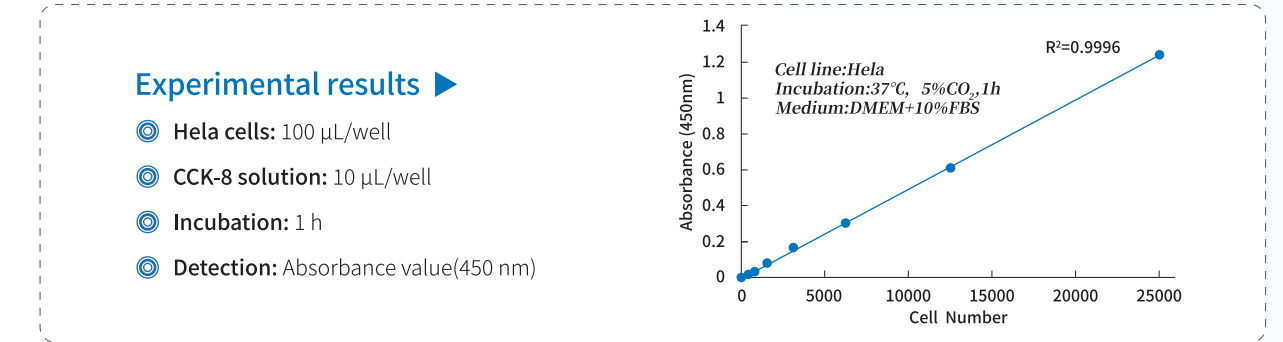
Calcein AM/PI

Calcein and PI probes are used to detect lactase activity and cell membrane integrity, respectively, so as to reflect cell activity and cytotoxicity. The kit is easy to operate and takes only about 30 minutes for fluorescence staining and detection.



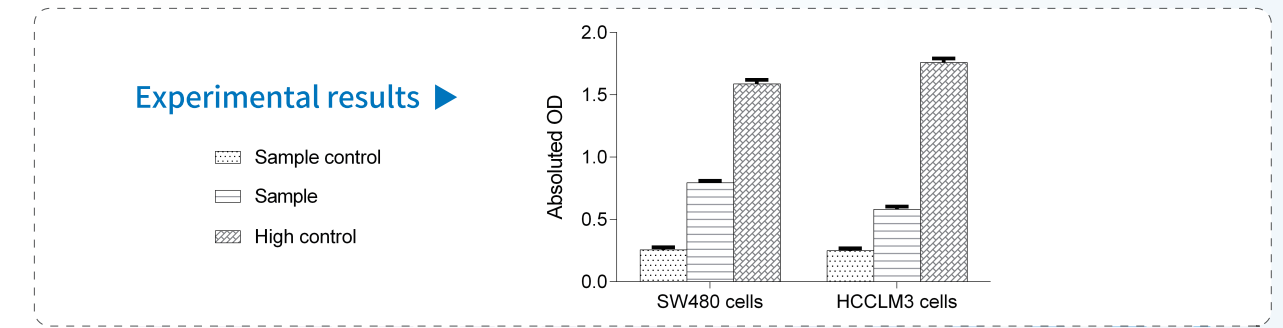
CCK-8(WST-8)

CCK-8 is a commonly used cell activity/toxicity test kit that also indirectly detects cell proliferation.



LDH Cytotoxicity Colorimetric Assay Kit

The number of dead cells is determined by measuring the amount of LDH released by damaged cell membranes. The detection result directly reflects the cell mortality, that is, the higher the absorbance measured, the stronger the cytotoxicity of the detected substance.



Cell Function Detection Kits

Annexin V Apoptosis Detection Kits

Product Name	Cat. No.	Size
Annexin V-FITC/PI Apoptosis Detection Kit	E-CK-A211	20/50/100/200 Assays
Annexin V-FITC/7-AAD Apoptosis Detection Kit	E-CK-A212	20/50/100/200 Assays
Annexin V-FITC/DAPI Apoptosis Detection Kit	E-CK-A252	20/50/100/200 Assays
Annexin V-PE/7-AAD Apoptosis Detection Kit	E-CK-A216	20/50/100/200 Assays
Annexin V-PE/DAPI Apoptosis Detection Kit	E-CK-A256	20/50/100/200 Assays
Annexin V-APC/PI Apoptosis Detection Kit	E-CK-A217	20/50/100/200 Assays
Annexin V-APC/7-AAD Apoptosis Detection Kit	E-CK-A218	20/50/100/200 Assays
Annexin V-APC/DAPI Apoptosis Detection Kit	E-CK-A258	20/50/100/200 Assays

More Annexin V products please visit: [www.elabscience.com](http://www.elabscience.com)

TUNEL Apoptosis Detection Kits

Product Name	Cat. No.	Size
One-step TUNEL In Situ Apoptosis Kit (Green, FITC)	E-CK-A320	20/50/100 Assays
One-step TUNEL In Situ Apoptosis Kit (Green, Elab Fluor®488)	E-CK-A321	20/50/100 Assays
One-step TUNEL In Situ Apoptosis Kit (Red, Elab Fluor®594)	E-CK-A322	20/50/100 Assays
One-step TUNEL In Situ Apoptosis Kit (Red, Elab Fluor®647)	E-CK-A324	20/50/100 Assays
One-step TUNEL In Situ Apoptosis Kit (Red, Elab Fluor®555)	E-CK-A325	20/50/100 Assays
One-step TUNEL Flow Cytometry Apoptosis Kit (Green, FITC)	E-CK-A420	20/50/100 Assays
One-step TUNEL Flow Cytometry Apoptosis Kit (Green, Elab Fluor®488)	E-CK-A421	20/50/100 Assays
One-step TUNEL Flow Cytometry Apoptosis Kit (Red, Elab Fluor®594)	E-CK-A422	20/50/100 Assays
One-step TUNEL Flow Cytometry Apoptosis Kit (Blue, Elab Fluor® Violet 450)	E-CK-A423	20/50/100 Assays
One-step TUNEL Flow Cytometry Apoptosis Kit (Red, Elab Fluor®647)	E-CK-A424	20/50/100 Assays
One-step TUNEL Flow Cytometry Apoptosis Kit (Red, Elab Fluor®555)	E-CK-A425	20/50/100 Assays
TUNEL In Situ Apoptosis Kit (HRP-DAB Method)	E-CK-A331	20/50/100 Assays

Other Apoptosis Detection Kits

Product Name	Cat. No.	Product	Size
Mitochondrial Membrane Potential Assay Kit (with JC-1)	E-CK-A301	Caspase 4 Activity Assay Kit (Colorimetric Method)	E-CK-A384
Caspase 1 Activity Assay Kit (Colorimetric Method)	E-CK-A381	Caspase 6 Activity Assay Kit (Colorimetric Method)	E-CK-A386
Caspase 2 Activity Assay Kit (Colorimetric Method)	E-CK-A382	Caspase 8 Activity Assay Kit (Colorimetric Method)	E-CK-A388
Caspase 3/7 Activity Assay Kit (Colorimetric Method)	E-CK-A383	Caspase 9 Activity Assay Kit (Colorimetric Method)	E-CK-A389

Cell Proliferation /Cytotoxicity/Viability and Cell Cycle  
Detection Kits

Product Name	Cat. No.	Product	Size
CFSE Cell Division Tracker Kit	E-CK-A345	Cell Cycle Assay Kit (Red Fluorescence)	E-CK-A351
Calcein AM/PI Double Staining Kit	E-CK-A354	Cell Cycle Assay Kit (Green Fluorescence)	E-CK-A352
Lactate Dehydrogenase (LDH) Cytotoxicity Colorimetric Assay Kit	E-BC-K771-M	Cell Cycle Assay Kit (Blue Fluorescence)	E-CK-A353
		Enhanced Cell Counting Kit 8 (WST-8/CCK8)	E-CK-A362

Elabscience Bionovation Inc.

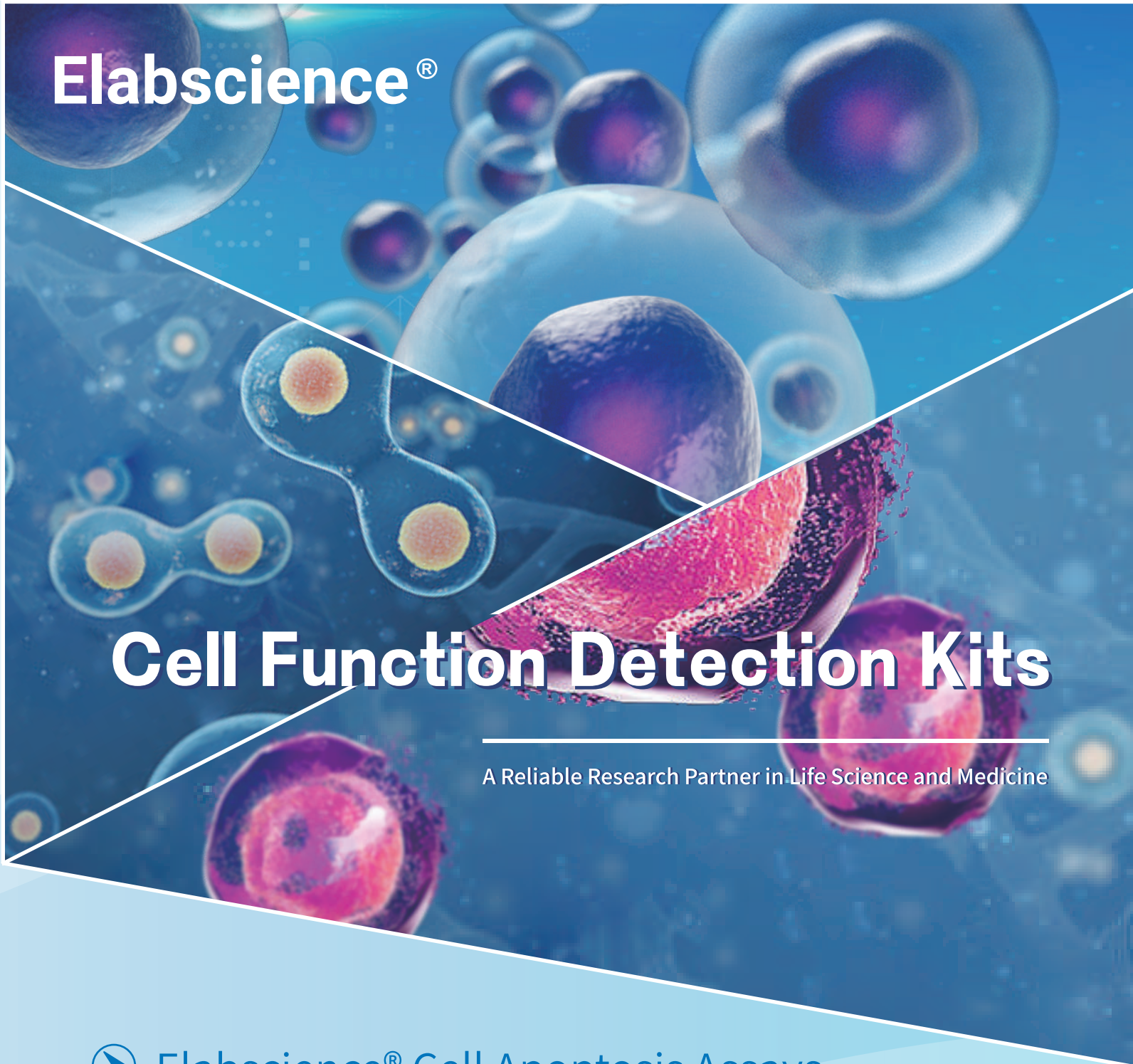
Toll-free: 1-888-852-8623

Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086

Email: [marketing@elabscience.com](mailto:marketing@elabscience.com)

Fax: 1-832-243-6017



Cell Function Detection Kits

A Reliable Research Partner in Life Science and Medicine

► Elabscience® Cell Apoptosis Assays

► Elabscience® Cell Cycle Assay Kit

► Elabscience® Cell Proliferation /Cytotoxicity/  
Viability Detection Assays

Elabscience Bionovation Inc.



Cell Apoptosis Assays

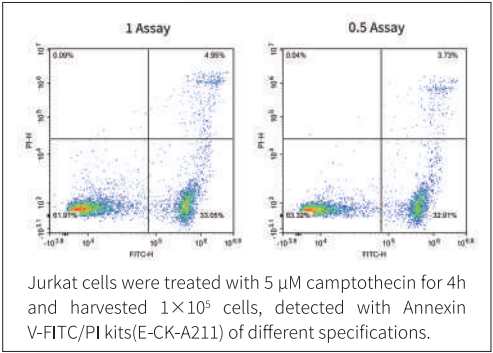
Annexin V

Annexin V combined with nucleic acid dyes for apoptosis detection, can effectively distinguish early apoptosis and late apoptosis.

Annexin V Apoptosis Detection Kits

Elabscience® has developed Annexin V Apoptosis Detection Kits with combining 15 fluorochromes and 3 nucleic acid dyes for multiple research requirements.

- High Accuracy** Ideal for early apoptosis detection and no fixation-related false positive
- Quick Operation** Only 15-20 min hand-on time
- Strict QC** Independent R&D, traceable and reliable quality
- Cost-effective** 100 assays can test 200 samples



Annexin V Reagent

More than 16 Annexin V staining solutions are provided to meet the different needs of your experiments.

Biotin	Elab Fluor® Violet 450	Elab Fluor® Violet 500	Elab Fluor® Red 780
FITC	Elab Fluor® 488	EGFP	PE/Elab Fluor® 594
PE	PE/Cyanine5	PE/Cyanine7	APC/Cyanine7
APC	Elab Fluor®647	PE/Cyanine5.5	Cyanine5

Annexin V Lyophilized Powder

Elabscience® provides Annexin V Lyophilized Powder which are cell culture grade to meet your cell culture experiment needs.

Elab Fluor® 488 E-CK-A137U

Elab Fluor® Violet 500 E-CK-A135U

Elab Fluor® 647 E-CK-A113U

Elab Fluor® Violet 450 E-CK-A133U

FITC E-CK-A111U

Biotin E-CK-A110U

EGFP E-CK-A119U

Cell Apoptosis Assays

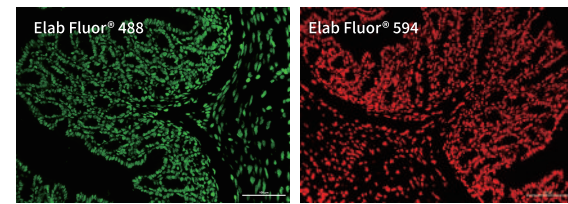
TUNEL

The "gold standard" of apoptosis detection which is often used for late apoptosis detection. Elabscience® TUNEL Apoptosis Assays are high sensitivity kits that can quickly and easily detect DNA fragments, the results can be detected by microscope or flow cytometry.

One-step TUNEL In Situ Apoptosis Kits

- Cost-effective** The key components are self-developed with more stable quality
- Easy to operate** One-step dyeing, saving time and effort
- Safe and non-toxic** No dimethylarsenate
- Multiple choices** FITC/ Elab Fluor® 488/ Elab Fluor® 594/ Elab Fluor® 647/ Elab Fluor® 555

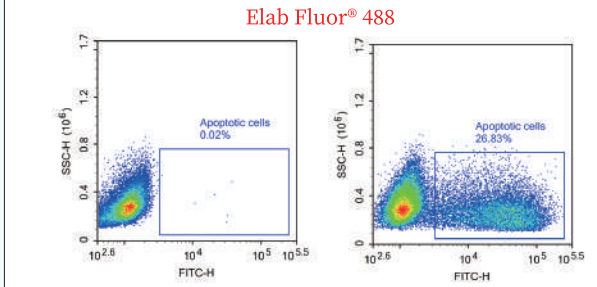
Experimental results



(Mouse colon, treated with DNase I for 10 min)

One-step TUNEL Flow Cytometry Apoptosis Kits

Experimental results



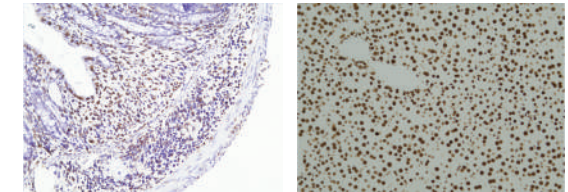
Jurkat cells (left: negative control; right: experimental group)

- Easy to operate** One-step dyeing, only need 2.5 h
- Wide applications** Suitable for a variety of suspension cells and adherent cultured cells
- Cost-effective** The kit contains fixed permeabilization fluid
- Multiple choices** FITC/ Elab Fluor® Violet 450 Elab Fluor® 488/ Elab Fluor® 594 Elab Fluor® 647/ Elab Fluor® 555

TUNEL In Situ Apoptosis Kit (HRP-DAB Method)

- High sensitivity** Very low background staining, apoptosis can be detected at the single-cell level
- Good specificity** It is generally easier to label apoptotic cells than necrotic cells in TUNEL assays
- Quick and easy** It only takes about 2-3 h to complete the staining
- Safe and non-toxic** No dimethylarsenate

Experimental results



(Mouse colon, treated with DNase I for 10 min)

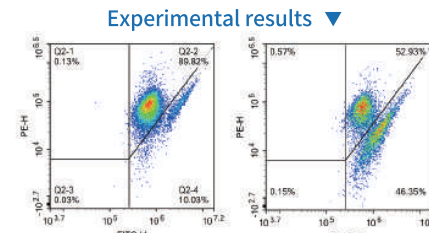
(Mouse Liver Tissue, treated with DNase I for 10 min)

Cell Apoptosis Assays

JC-1

Mitochondrial Membrane Potential Assay Kit (with JC-1)

It is used to detect the mitochondrial membrane potential which is a significant event of early apoptosis.

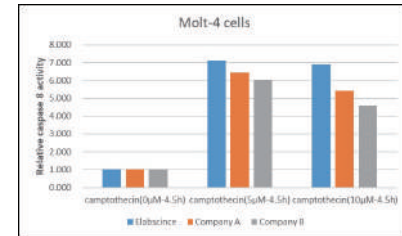


Jurkat cells, normal culture (left), treated with 5 μM camptothecin for 4 h (right)

Caspase

Caspase Activity Assay Kits

Experimental results



The process of cell apoptosis is actually Caspase activation and apoptotic protease cascade reaction. Caspase(cysteiny-l-aspartic acid proteases) is a protease family, activated Caspase will destroy some important intracellular proteins and lead to the occurrence of apoptosis.

Cell Cycle Assay Kit

The cell cycle can be determined by the fluorescence intensity detected by flow cytometry according to the characteristics of DNA binding with fluorescent dye (PI) in the cell.

Experimental results

