

Elabscience®

Cell Proliferation /Cytotoxicity/Viability Detection Kits

⌚ Efficient ⚡ Sensitive ⚙ One-stop solution

CFSE | EdU | Calcein AM/PI | CCK-8 | LDH | MTT

Elabscience® CFSE Cell Division Tracker Kit

CFSE: A new fluorescent probe that can be used to label living cells. With high fluorescence intensity and low autofluorescence background, it has been widely used in cell proliferation detection in recent years.

Advantages

✓ Signal stability

Fluorochrome can be retained in cells for several weeks

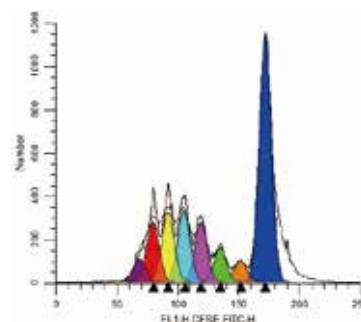
✓ Safe and non-toxic

Low cytotoxicity, no effect upon cell differentiation and proliferation

✓ Simple operation

Staining takes only 10 min

Result of Elabscience® CFSE Cell Division Tracker Kit



Murine bone marrow-derived dendritic cells cultured in vitro were stimulated with LPS and then co-cultured with 4T1-bearing mouse spleen cells stained with CFSE for 72 h. Result of T cell proliferation.

Product: CFSE Cell Division Tracker Kit (E-CK-A345)

Elabscience® Calcein AM/PI Double Staining Kit

Calcein AM can easily enter the cell membrane of living cells into the cytoplasm and be hydrolyzed by esterase to produce Calcein (Ex/Em=490/515 nm), the combination of Calcein AM and PI can distinguish living and dead cells.

Advantages

✓ Easy to operate

No need to explore reagent dilution ratio conditions, operation time is only 15~30 min

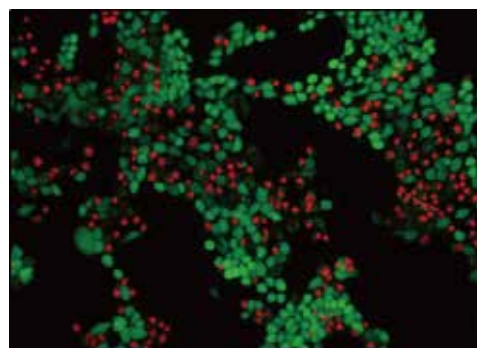
✓ Low toxicity

No effect upon cell differentiation and proliferation

✓ Cost-effective

The reagent component is complete, and the buffer contains components to prevent Calcein spill

Result of Elabscience® Calcein AM/PI Double Staining Kit



4T1 cells were treated with 5 μ M Camptothecin for 4 h and then stained. Green (live cells), Red (dead cells)

Product: Calcein AM/PI Double Staining Kit (E-CK-A354)

Elabscience® Cell Counting Kit 8

Cell Counting Kit-8 (CKK-8) is a rapid and highly sensitive kit based on WST-8, which is widely used in the detection of cell activity and cytotoxicity. In the presence of electron carrier, WST-8 can be reduced by dehydrogenase in mitochondria to form water-soluble orange-yellow dark (Formazan) products, and the amount of Formazan produced is proportional to the number of viable cells. The more and faster the cell proliferation, the darker the color is. The amount of viable cells can be calculated indirectly by measuring the absorbance at 450 nm.

Advantages



High sensitivity



Wide linear and perfect reproducibility

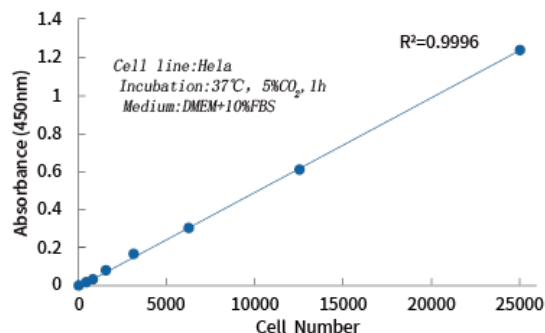


Low toxicity, simple operation



Multiple applications: drug screening, tumor drug sensitivity etc.

Result of Elabscience® Cell Counting Kit 8



Gradient number of Hela cells were incubated with CKK-8 for 1 h.
Product: Enhanced Cell Counting Kit 8 (WST-8/CKK8)
(E-CK-A362)

Other Cell Proliferation /Cytotoxicity/Viability Detection Kits

LDH: A commonly used cytotoxicity kit which determines the number of dead cells by detecting the amount of LDH released from damaged cell membranes.

MTT: A classic cell proliferation and cytotoxicity detection kit which determines the viable cell number by detecting the activity of succinate dehydrogenase in the mitochondria of living cells.

Elabscience® Cell Proliferation /Cytotoxicity/Viability Detection Kits

Cat. No.	Product Name	Size
E-CK-A345	CFSE Cell Division Tracker Kit	500/2000 Assays
E-CK-A354	Calcein AM/PI Double Staining Kit	100/500/5000 Assays
E-CK-A362	Enhanced Cell Counting Kit 8 (WST-8/CKK8)	100/500/10000 T
E-BC-K771-M	Lactate Dehydrogenase (LDH) Cytotoxicity Colorimetric Assay Kit	96 T
E-CK-A341	MTT Cell Proliferation and Cytotoxicity Assay Kit	500/1000 Assays

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