Elabscience®

A Comprehensive Solution for Cell Cycle Assay

Multiple choices | **High sensitivity** | **High accuracy**

- The cell cycle refers to the activity process of a cell from the end of the previous division to the end of the next division, which reflects the speed of cellproliferation. Studying the impact of cell cycle changes plays an important role in the development of tumors and drug development.
- The commonly used method for cell cycle detection is to detect DNA content. Fluorescent dyes that can bind to DNA (such as PI) can be used, and the proportion of cells in each stage can be analyzed based on the different DNA content and fluorescence intensity at different stages of the cell.

Advantages of Elabscience® Cell Cycle Assay Kits

Multiple choices — Three fluorescence options,no worry about the autofluorescence.

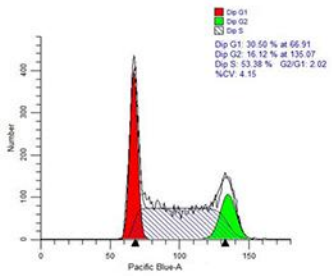
High sensitivity — Able to detect few cells, which is conducive to conducting experiments under low cell density conditions.

High accuracy — Accurately identify cells at different stages with higher resolution, lower CV value.

Elabscience® Cell Cycle Assay Kits

Product Name	Ex/Em (nm)	Cat. No.	Size
Cell Cycle Assay Kit (Red Fluorescence)	536/617 nm	E-CK-A351	20/50/100 Assays
Cell Cycle Assay Kit (Green Fluorescence)	500/530 nm	E-CK-A352	20/50/100 Assays
Cell Cycle Assay Kit (Blue Fluorescence)	364/454 nm	E-CK-A353	20/50/100 Assays

Detection Result of Elabscience® Cell Cycle Assay Kits



1. **Ordinate:** Cell Number, the effective number of cells counted.
   Abscissa: DNA Content.
2. **Meaning of numbers on the right:** Dip G1-30.50% at 66.91 indicates the average DNA content of G1 phase is 66.91, with G1 phase cells accounting for 30.50% of the total number, etc.

Jurkat cells were cultured at 37°C for 6 hours and fixed overnight with 70% ethanol. The cell cycle was detected using Cell Cycle Assay Kit (Blue Fluorescence) (E-CK-A353).

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