



Cell Cycle Assay Kit [G2/M] (Red Fluorescence)

PI is an insertional fluorescent nucleic acid dye, which can be selectively inserted between the bases of nucleic acid DNA and RNA double-stranded helix and bind it, and the amount of binding is directly proportional to the DNA content. By analyzing with flow-cytometry, the DNA distribution state of each stage of the cell cycle can be obtained, so as to calculate the percentage content of each stage. After PI staining, assuming that the fluorescence intensity of G0/G1 phase cells is 1, the theoretical value of the fluorescence intensity of G2/M phase cells containing double genomic DNA is 2, and the fluorescence intensity of S phase cells undergoing DNA replication is between 1-2.

Under normal culture conditions, the cells in the population are in different cell cycle periods. In order to study the metabolism, proliferation, gene expression or apoptosis of cells at a certain period, it is often necessary to take some methods to make cells at the same period of the cell cycle, which is cell synchronization technology. The morphology and physiological state of cells in the same phase can be used to study the growth and metabolism of cells. This kit synchronizes cells so that cell samples are at the same stage of the cell cycle, greatly increasing the sample size of the study target.

Catalog No.	520301
Size	20 Assays / 50 Assays
Product Category	Cell Detection
Storage/Stability	-20°C/1 year
Shipping	Gel Packs