

## ARG81299 Cell Cycle / Apoptosis Analysis Kit

Package: 200 tests  
Store at: 4°C, -20°C

### Component

Cat. No.	Component Name	Package
ARG81299-1	Staining Buffer	4 X 20 ml
ARG81299-2	25 X Propidium Iodide (PI)	2 X 1.5 ml
ARG81299-3	RNase A (2.5 mg/ml)	0.8 ml

### Summary

Product Description	ARG81299 Cell Cycle / Apoptosis Analysis Kit can be used to measure Cell Cycle / Apoptosis activity in cells.
Tested Reactivity	Other
Tested Application	FuncSt
Target Name	Cell Cycle / Apoptosis
Conjugation Note	Excitation: 488 nm.
Sample Type	Cells
Sample Volume	50 µl

### Application Instructions

Assay Time	~ 3 hours
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### Properties

Form	Liquid
Storage instruction	Store components at 4°C or -20°C. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

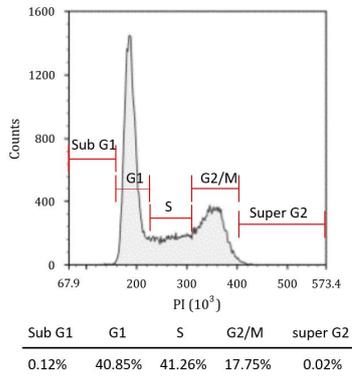
### Bioinformation

Background	The content of DNA is changed with the process of cell cycle. And the DNA can be stained by fluorescent dye to measure its intensity by flow cytometry to monitor the cell cycle distribution in G1, S, G2/M phase and as well as apoptosis and aneuploidy cells with signals at sub-G1 or super G2 region. Propidium iodide (or PI) is a fluorescent intercalating agent and it binds to DNA by intercalating between the bases with little or no sequence preference. Therefore PI is used widely as a DNA dye in flow cytometry to evaluate cell viability or DNA content in cell cycle analysis, or in microscopy to visualize the nucleus and other DNA-containing organelles. However, PI also binds to RNA, and it interference with the DNA measurement in the assay. In this Cell Cycle / Apoptosis Analysis Kit we
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provide an RNase to degrade RNA before PI staining to eliminate the interference by RNA and the kit can be used to monitor cell cycle progression, proliferation and apoptosis by flow cytometry.

## Images

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ARG81299 Cell Cycle / Apoptosis Analysis Kit functional study image

Functional study: Jurkat cells stained with ARG81299 Cell Cycle / Apoptosis Analysis Kit.