Cell Viability Assay Kit (Green/Red Dual Fluorescence)

Catalog # KA4149 Size 1 Kit

Applications

Result Data

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The Effect of Jurkat cells on Saponin induced cell death measured with Cell Viability Assay Kit (Green/Red Dual Fluorescence). Jurkat cells at 2 $X10^6$ cells/mL were treated with or without 0.5% Saponin for 5 minutes, then centrifuged and the supernatant were replaced with fresh medium. 100 uL of untreated cells (A), 50 uL each of untreated and treated cells (B), 25 uL of untreated and 75 uL treated cells (C), and 100 uL of 0.5% saponin treated cells (D) were plated in a 96-well black wall/clear bottom Poly-D-lysine plate. The cells were incubated with 100 uL/well of CytoCalcein Green/ Propidium Iodide dye-loading solution for 1 hr at 37°C. The fluorescence intensity was measured at Ex/Em = 490/525 nm and 540/650 nm using NOVOstar instrument (BMG Labtech). The ratio of 490/525 nm to 540/650 nm fluorescence intensity on live and dead cells were showed as indicated (n=6).

Specification

Product Description	Cell Viability Assay Kit (Green/Red Dual Fluorescence) is a dual fluorescent assay used to monitor cell viability and cellular functions. It is suitable for proliferating and non-proliferating cells, and can be used for both suspension and adherent cells.
Suitable Sample	Cells
Detection Method	Fluorometric

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Platform	Instrument: Fluorescence microplate reader Excitation: 490 nm (live), 540 nm (dead) Emission: 525 nm (live), 620 nm (dead) Cutoff: 515 nm, 590 nm Recommended plate: Solid black Instrument: Fluorescence microscope Excitation: FITC filter (live), TRITC filter (dead) Emission: FITC filter (live), TRITC filter (dead) Recommended plate: Black wall/clear bottom Instrument: Flow cytometer Excitation: 488 nm laser Emission: 530/30 nm, 610/20 nm filter Instrument specification(s): FITC, PE-Texas Red channel
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at -20°C and avoid from light.
Note	Result Data Result Data The Effect of Jurkat cells on Saponin induced cell death measured with Cell Viability Assay Kit (Green/Red Dual Fluorescence). Jurkat cells at 2 X10^6 cells/mL were treated with or without 0.5% Saponin for 5 minutes, then centrifuged and the supernatant were replaced with fresh medium. 100 uL of untreated cells (A), 50 uL each of untreated and treated cells (B), 25 uL of untreated and 75 uL treated cells (C), and 100 uL of 0.5% saponin treated cells (D) were plated in a 96-well black wall/clear bottom Poly-D-lysine plate. The cells were incubated with 100 uL/well of CytoCalcein Green/ Propidium Iodide dye-loading solution for 1 hr at 37°C. The fluorescence intensity was measured at Ex/Em = 490/525 nm and 540/650 nm using NOVOstar instrument (BMG Labtech). The ratio of 490/525 nm to 540/650 nm fluorescence intensity on live and dead cells were showed as indicated (n=6).

Applications

- Functional Study

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