

Nuclear Apoptosis Assay Kit (Green Fluorescence)

Catalog # KA4159

Size 1 Kit

Applications

Result Data

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The increase in fluorescence intensity of Nuclear Green DCS1 with the addition of Camptothecin in Jurkat cells. Jurkat cells were treated overnight without (A) or with 20 uM camptothecin (B) in a 37°C, 5% CO₂ incubator, and then dye loaded with Nuclear Green DCS1 for 60 minutes. At the end of 15 minutes of Nuclear Green DCS1 dye loading, MitoLite NIR was added for multicolor analysis. The fluorescence intensity of Nuclear Green DCS1 and MitoLite NIR was measured with a FACSCalibur flow cytometer using FL1 channel (Nuclear Green DCS1) and FL4 channel (MitoLite NIR).

Specification

Product Description	Nuclear Apoptosis Assay Kit (Green Fluorescence) is a fluorescent assay used to detect cell apoptosis by monitoring the apoptotic chromatin condensation.
Suitable Sample	Cells
Detection Method	Fluorometric
Excitation (Max)	490 nm
Emission (Max)	520 nm
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at -20°C and avoid from light.

Note

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Applications

- Functional Study

Publication Reference

- [Tranilast reduces cardiomyocyte injury induced by ischemia-reperfusion via Nrf2/HO-1/NF-κB signaling.](#)

Wei Wang, Qifeng Shen.

Experimental and Therapeutic Medicine 2023 Feb; 25(4):160.

Application: Func, Rat, H9c2(2-1) cells

- [Oxymatrine pretreatment protects H9c2 cardiomyocytes from hypoxia/reoxygenation injury by modulating the PI3K/Akt pathway.](#)

Zhongbai Zhang, Xueting Qin, Zhenghui Wang, Yanchun Li, Fei Chen, Rundu Chen, Chuang Li, Wencheng Zhang, Mei Zhang.

Experimental and Therapeutic Medicine 2021 Jun; 21(6):556.

Application: Func, Rat, H9c2 cardiomyocyte cell line