

caspiLLUME Green Active Caspase-3 Staining Kit

Cat. No. GTX85555

Applications FCM

References (1)

Package

1 kit

PRODUCT

Activation of caspases plays a central role in apoptosis. The CaspiLLUME[®] Fluorescein Active Caspase-3 Staining Kit provides a convenient means for sensitive detection of activated caspase-3 in living cells. The assay utilizes the caspase-3 inhibitor, DEVD-FMK, conjugated to FITC (FITC-DEVD-FMK) as a marker. FITC-DEVD-FMK is cell permeable, nontoxic, and irreversibly binds to activated caspase-3 in apoptotic cells.

- Detection method- Fluorescence microscopy, Flow cytometry and plate reader (Ex. = 485 nm and Em. = 535 nm)
- Sample type- Live cells
- Species reactivity- Mammalian
- Applications- Sensitive detection of activated caspase-3 in living cells.

Summary

Features and Benefits

- Simple one-step procedure; takes only 1-2 hours
- Fast and convenient
- The FITC label allows for direct detection of the activated caspases in apoptotic cells by fluorescence microscopy, flow cytometry, or fluorescence plate reader.

Kit Contents:

FITC-DEVD-FMK
Wash Buffer
Z-VAD-FMK

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
FCM	Assay dependent
Not tested in other applications.	

Properties

Storage

Store at -20°C. Product has an expected shelf life of 6-12 months.

Note

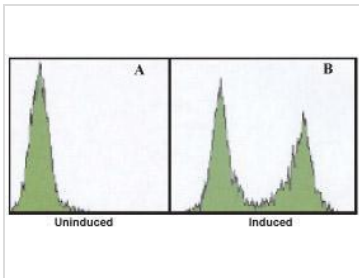
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DATA IMAGES

**GTX85555 Image****GTX85555 FCM Image**

Detection of Caspase3 Activation Using CaspILLUME Fluorescein Caspase3 Staining Kit. Apoptosis was induced in Jurkat cells with (B) or without (A) camptothecin for 6 hours. Cells were collected and incubated with CaspILLUME in situ marker, FITCDEVD_{FMK}, for 20 minutes according to kit instructions. Cells were then analyzed by flow cytometry in the FL1 channel.



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