

# 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<sup>®</sup> 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

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

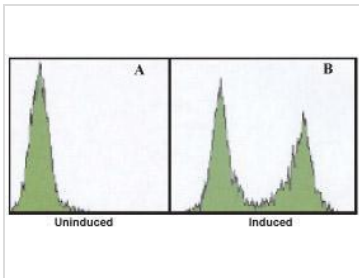


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DATA IMAGES



**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<sup>FMK</sup>, for 20 minutes according to kit instructions. Cells were then analyzed by flow cytometry in the FL1 channel.



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