



## Caspase-5 Fluorometric Assay Kit

### Product Information

#### Cat.No.

Kit-0169

#### Product Overview

Fluorometric assay kit for caspase-5 activity

#### Size

100 assay

#### Description

Activation of ICE-family proteases/caspases initiates apoptosis in mammalian cells. The Caspase-5 Fluorometric Assay Kit provides a simple and convenient means for assaying the activity of caspase-5 and related caspases that recognize the sequence WEHD. The assay is based on detection of cleavage of substrate WEHD-AFC (AFC: 7-amino-4-trifluoromethyl coumarin). WEHD-AFC emits blue light ( $I_{max} = 400 \text{ nm}$ ); upon cleavage of the substrate by caspase-5 or related caspases, free AFC emits a yellow-green fluorescence ( $I_{max} = 505 \text{ nm}$ ), which can be quantified using a fluorometer or fluorescence microtiter plate reader.

#### Applications

Detect early/middle stages of apoptosis; differentiate apoptosis from necrosis.

#### Target Species

Mammal

#### Usage

For research use only. Not intended for any diagnostic or therapeutic purpose.

#### Storage

Store at  $-20^{\circ}\text{C}$ . Product has an expected shelf life of 6-12 months.

#### Kit Components

Cell Lysis Buffer; 2X Reaction Buffer; WEHD-AFC (1 mM); DTT (1 M)



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Assay Kit

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**Detection method** Fluorescence microtiter plate reader (400-nm excitation filter and 505-nm emission filter) and fluorescence microscopy

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### Compatible Sample Types

Cell and tissue lysates

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### Features & Benefits

1. Simple one-step procedure; takes only 1-2 hours. 2. Fast and convenient. 3. Comparison of the fluorescence of AFC from a treated sample with an untreated control allows determination of the fold increase in caspase-5 activity.

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