abcam

Product datasheet

Apoptosis/ Necrosis Assay Kit (blue, red, green) ab176750

★★★★★ 1 Abreviews 13 References 1 Image

Overview

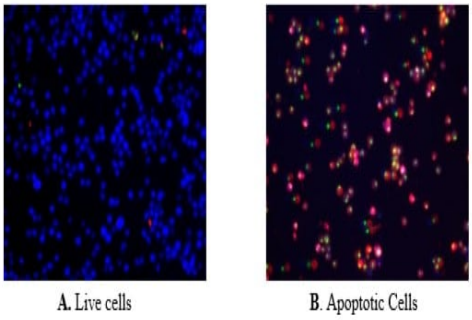
Product name	Apoptosis/ Necrosis Assay Kit (blue, red, green)
Sample type	Adherent cells, Suspension cells
Assay type	Cell-based
Assay time	1h 00m
Product overview	Apoptosis/ Necrosis Assay Kit (blue, red, green) (ab176750) is designed to simultaneously monitor apoptotic, necrotic and healthy cells. The PS sensor used in this kit has red fluorescence (Ex/Em = 630/660 nm) upon binding to membrane PS. Necrosis has been characterized as passive, accidental cell death resulting from environmental perturbations with uncontrolled release of inflammatory cellular contents. Loss of plasma membrane integrity, as demonstrated by the ability of the membrane-impermeable DNA Nuclear Green DCS1 dye (Ex/Em = 490/525 nm) to label the nucleus, represents a straightforward approach to demonstrate late stage apoptosis and necrosis. This apoptosis / necrosis assay also provides a live cell cytoplasm labeling dye CytoCalcein Violet 450 (Ex/Em = 405/450 nm) to label live cell cytoplasm. This kit is optimized to simultaneously detect cell apoptosis (Red), apoptosis (red and/or green) and healthy cells (blue) with a flow cytometer or fluorescence microscope.
Notes	This product was previously called Apoptosis/ Necrosis Detection Kit. **Other apoptosis assays** For more apoptosis assays, review the **apoptosis assay and apoptosis marker guide**.
Platform	Flow cytometer, Fluorescence microscope

Properties

Storage instructions Store at -20°C. Please refer to protocols.

Components	100 tests
Apopxin Deep Red Indicator	1 x 200µl
Assay Buffer	1 x 50ml
CytoCalcein Violet 450	1 vial
Nuclear Green DCS1 Dye	1 x 100µl

Images



Detection of binding activity of Apopxin Deep Red Indicator to phosphatidylserine in Jurkat cells using Apoptosis/Necrosis Detection Kit (blue, red, green) (**ab176749**)

The fluorescence image shows cells that are live (blue, stained by CytoCalcein Violet 450), apoptotic (red, stained by Apopxin Deep Red Indicator), and necrotic (green, indicated by Nuclear Green DCS1staining) in Jurkat cells induced by 1µM staurosporine for 3 hours. The fluorescence images of the cells were taken with a fluorescence microscope through the Violet, Cy5 and FITC channel respectively. Individual images taken from each channel from the same cell population were merged as shown above. A: Non-induced control cells; B: Triple staining of staurosporine-induced cells.

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