CREATIVE BIOMART®
Assay Kit

Mitochondrial Apoptosis Detection Kit

Product Information

Cat.No. Kit-0558

Product Overview

Mitochondrial Apoptosis Detection Kit is used for distinguishing between healthy and apoptotic cells by detecting the changes in the mitochondrial transmembrane potential.

Description

Disruption of the mitochondrial transmembrane potential is one of the earliest intracellular events that occur following induction of apoptosis. The Apoptosis Detection Kit provides a simple, fluorescent-based method for distinguishing between healthy and apoptotic cells by detecting the changes in the mitochondrial transmembrane potential. The kit utilizes MitoCaptureTM, a cationic dye that fluoresces differently in healthy vs apoptotic cells. In healthy cells, MitoCapture accumulates and aggregates in the mitocondria, giving off a bright red fluorescence. In apoptotic cells, MitoCapture cannot aggregate in the mitochondria due to the altered mitochondrial transmembrane potential, and thus it remains in the cytoplasm in its monomer form, fluorescing green. The fluorescent signals can be easily detected by fluorescence microscopy using a band-pass filter (detects FITC and rhodamine) or analyzed by flow cytometry using FITC channel for green monomers (Ex/Em = 488/530 ± 30 nm) and (optional) PI channel for red aggregates (Em = 488/590 ± 42 nm).

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store at -20°C. Avoid freeze-thaw. Protect from light. Store Incubation Buffer at 4°C after opening. All reagents are stable for 1 year.

Kit Components

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Mitochondrial Apoptosis Detection Kit

MitoCapture Reagent 100 µlIncubation Buffer 2 x 100 ml

Compatible Sample Types

Cell

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