CREATIVE BIOMART®
Assay Kit

Autophagy/Cytotoxicity Dual Staining Kit

Product Information

Cat.No. Kit-0124

Product Overview

Autophagy/Cytotoxicity Dual Staining Kit is a fluorescence-labeled method for screening autophagy and cytotoxicity at the cellular level.

Description

Autophagy is a critical cellular process that involves the degradation and digestion of intracellular components by the lysosome. This process not only enables cells to efficiently mobilize and recycle cellular constituents, but also prevents the accumulation of damaged organelles, misfolded proteins, and invading microorganisms. Autophagy is a multi-step process that begins with the sequestration of cytoplasmic organelles and proteins. These cellular components are sequestered by a double membrane, forming an autophagosome. The autophagosome then fuses with a lysosome to form an autolysosome, where the cellular material is then degraded. Normal autophagy is essential for survival, differentiation, development, and homeostasis. Dysregulation of autophagy has been implicated in cancer, infection, aging, and degenerative diseases. While autophagy most often acts to promote cell survival in response to stress, it can also promote cell death. The relationship between autophagy and apoptosis is complex. The two pathways share common stimuli and components, and can regulate the activity of each other. However, the specific factors and mechanisms that dictate the choice between autophagy and apoptosis remain unclear.

Usage

For research use only (RUO)

Storage

This kit will perform as specified if stored as directed and used before the expiration date indicated on the outside of the box. Cell-Based Monodansylcadaverine -20°CCell-Based Assay Buffer Tablet Room TemperatureCell-Based Propidium Iodide Solution 4°CCell-Based Tamoxifen (100 mM) -20°C

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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Assay Kit

Autophagy/Cytotoxicity Dual Staining Kit

Cell-Based Monodansylcadaverine 1 vial/100 μLCell-Based Assay Buffer Tablet 1 vial/5 tabletsCell-Based Propidium Iodide Solution 1 vial/250μLCell-Based Tamoxifen (100 mM) 1 vial/50 μL

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