CREATIVE BIOMART®
Assay Kit

Cholesterol Cell-Based Detection Assay Kit

Product Information

Cat.No. Kit-0220

Product Overview

Cholesterol Cell-Based Detection Assay Kit is a fluorescence-labeled method for histochemical identification of unesterified cholesterol in vivo and in vitro.

Description

Cholesterol is both an important structural component of cell membranes and an early intermediate in hormone and bile acid biosynthesis. Cholesterol is not uniformly distributed among cellular membranes, but rather there are structurally and kinetically distinct cholesterol rich and poor domains. Under normal conditions, as much as 80-90% of total cellular cholesterol is present at the plasma membrane, whereas very little cholesterol resides in the endoplasmic reticulum and inner mitochondrial membranes. Cholesterol that is acquired by internalization and lysosomal hydrolysis of plasma lipoproteins, such as low-density lipoprotein (LDL), or synthesized in the endoplasmic reticulum is rapidly transported to the plasma membrane and integrated into the plasma membrane lipid pool. Within cells, intracellular cholesterol may move to different compartments through vesicular or nonvesicular pathways such as those mediated by diffusible carrier proteins. Defects in these transport pathways can alter cellular cholesterol metabolism resulting in pathological states. The mechanism for the ensuing movement of cholesterol from intracellular sites to their ultimate cellular destination is an unresolved question of fundamental importance in the areas of cell biology and medicine. Thus, defining mechanisms of intracellular cholesterol transport and identifying the cellular factors involved are of great interest.

Usage

For research use only (RUO)

Storage

Cell-Based Assay Fixative Room TemperatureCell-Based Assay Wash Buffer Room TemperatureCholesterol Detection Filipin III -20°CCholesterol Detection Assay Buffer Room TemperatureCell-Based Assay U18666A -20°C

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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Kit Components

Cell-Based Assay Fixative 2 vialsCell-Based Assay Wash Buffer 1 vialCholesterol Detection Filipin III 1 vialCholesterol Detection Assay Buffer 1 vialCell-Based Assay U-18666A 1 vial

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