CREATIVE BIOMART®
Assay Kit

# Aldehyde Site Detection Kit

## Product Information

**Cat.No.** Kit-0072

**Product Overview**

Aldehyde Site Detection Kit is a fluorescence-based method for detecting aldehyde sites in cells.

**Description**

Oxidative damage occurs in all living organisms from reactive oxygen species (ROS), which are a consequence of normal body processes such as metabolism. ROS react with proteins, resulting in protein modification, such as introduction of carbonyl groups into the protein. The modified proteins are dysfunctional and can be removed through degradation. Both mitochondrial DNA and nuclear DNA are constantly exposed to oxygen radicals, causing extensive oxidative damage. DNA damage by ROS has significant consequences since it causes mutations and genomic instability. Studies have shown that oxidative DNA damage accumulates with aging. Oxidative DNA damage has been implicated to be important in many diseases, including cancer.1 Assessment of this damage in various biological matrices is essential for understanding the mechanisms of oxidative damage and its biological effects.

**Usage**

For research use only (RUO)

**Storage**

Aldehyde Site Assay Reactive Probe -20°CCell-Based Assay Buffer (10X) Room TemperatureCell-Based Assay Fixative Room TemperatureCell-Based BSA Blocking Solution 4°CAldehyde Site Assay Denaturing Solution Room TemperatureCell-Based Assay Avidin-FITC Complex -20°CCell-Based Assay Epigallocatechin Gallate (EGCG) -20°CNote: Avidin-FITC is light sensitive. Do not expose to direct intense light.

**Kit Components**

Aldehyde Site Assay Reactive Probe 120 μLCell-Based Assay Buffer (10X) 50 mLCell-Based Assay Fixative 12 mLCell-Based BSA Blocking Solution 10 mLAldehyde Site Assay Denaturing Solution 5 mL x 2Cell-Based Assay Avidin-FITC Complex 1 vialCell-Based Assay Epigallocatechin Gallate (EGCG) 1

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