



## Aldehyde Site Detection Kit

### Product Information

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#### Cat.No.

Kit-0072

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#### Product Overview

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

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#### Description

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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.<sup>1</sup> Assessment of this damage in various biological matrices is essential for understanding the mechanisms of oxidative damage and its biological effects.

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#### Usage

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For research use only (RUO)

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#### Storage

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

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#### Kit Components

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Aldehyde Site Assay Reactive Probe 120 µL Cell-Based Assay Buffer (10X) 50 mL Cell-Based Assay Fixative 12 mL Cell-Based BSA Blocking Solution 10 mL Aldehyde Site Assay Denaturing Solution 5 mL x



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Aldehyde Site Detection Kit

2Cell-Based Assay Avidin-FITC Complex 1 vial  
Cell-Based Assay Epigallocatechin Gallate (EGCG) 1 vial

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Tel: 1-631-559-9269 1-516-512-3133

Fax: 1-631-938-8127

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)

45-1 Ramsey Road, Shirley, NY 11967, USA