



# Mitochondrial Aldehyde Dehydrogenase (ALDH2) Activity Assay Kit

## Product Information

### Cat.No.

Kit-0076

### Product Overview

The kit is used to determine mitochondrial aldehyde dehydrogenase activity (ALDH2) in a sample. The enzyme is captured within the wells of the microplate and activity is determined by following the production of NADH in the following ALDH2 catalyzed reaction: acetaldehyde + NAD<sup>+</sup> → acid + NADH. The generation of NADH is coupled to the 1:1 reduction of a reporter dye to yield a colored (yellow) reaction product whose concentration can be monitored by measuring the increase in absorbance at 450 nm (Dye molar extinction coefficient-37000 M<sup>-1</sup>cm<sup>-1</sup>). ab115348 immunocaptures in each well only native ALDH2 from the chosen sample; this removes all other enzymes, including unrelated aldehyde dehydrogenases.

### Size

1 x 96 test

### Applications

Functional Studies

### Target Species

Reacts with: Mouse, Rat, Cow, Dog, Human

### Storage

All components are shipped cold. Reagent dye, Coupler and NAD<sup>+</sup> are shipped lyophilized. Before use rehydrate by adding 0.25 mL pure H<sub>2</sub>O to each tube and vortex each tube thoroughly to dissolve. After hydration unused amounts of these three materials should be stored at -80°C. Store all other components store at 4°C. This kit is Stable for 6 months from receipt.

### Kit Components

Components 1 x 96 tests 100X acetaldehyde (2.5 M) 1 x 0.25ml 100X Coupler 1 x 0.25ml 100X NAD<sup>+</sup> 1 x 0.25ml 100X Reagent Dye 1 x 0.25ml 10X Blocking Buffer 1 x 6ml 1X Base Buffer 1 x 24ml 20X Buffer 1 x



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

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20ml 96 well microplate (12 strips) 1 unit Extraction Buffer 1 x 15ml

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**Detection method** Colorimetric

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### **Compatible Sample Types**

Cell culture extracts, Tissue Extracts

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