CREATIVE BIOMART®
Assay Kit

# HDAC2 Assay Kit

## Product Information

**Cat.No.**

Kit-0430

**Product Overview**

HDAC2 Assay Kit is use for measuring the amount of HDAC2.

**Description**

Histone deacetylases (HDACs) play a critical role in transcriptional repression of the gene expression in eukaryotic cells through catalyzing the hydrolytic removal of acetyl groups from histone lysine residues. HDACs are tightly involved in cell cycle regulation, cell proliferation and in the development of human cancer. HDAC inhibition displays significant effects on apoptosis, cell cycle arrest and differentiation in cancer cells. HDAC inhibitors are currently being developed as potential anticancer agents. Three distinct families of HDACs have been described, comprising a group of at least 20 proteins in humans. HDAC2 is a class I histone deacetylase containing 488 amino acid residues. HDAC2 has been shown to interact directly with transcription factors and has been shown to deacetylate histone proteins H3 and H4. The major assay for measuring the expression or amount of HDAC2 protein currently is Western blot. This method requires electrophoresis and transfer process, which makes the assay inconvenient, time consuming, and has low throughput. The HDAC2 Assay Kit addresses these problems by using a unique procedure to measure amount of HDAC2.

**Applications**

The HDAC2 Assay Kit is for measuring HDAC2 levels from various fresh tissues and cultured mammalian cells.

**Usage**

For research use only (RUO)

**Storage**

Upon receipt: (1) Store HB5 and HDAC2 Control at -20°C; (2) Store HB1, HB3, HB4, HB6 and 8-Well Assay Strips at 4°C away from light; (3) Store all other components at room temperature. The kit is

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stable for up to 6 months from the shipment date, when stored properly.Note: Check if wash buffer, HB1, contains salt precipitates before using. If so, warm (at room temperature or 37°C) and shake the buffer until the salts are re-dissolved.

**Kit Components**

HB1 (10X Wash Buffer) 22 mLHB2 (HDAC Assay Buffer) 2 mLHB3 (Blocking Buffer) 20 mLHB4 (Capture Antibody, 200 μg/mL)* 26 μLHB5 (Detection antibody 200 μg/mL)* 20 μLHB6 (Developing Solution) 12 mLHB7 (Stop Solution) 6 mLHDAC2 Control (100 ng/μL) 32 μL8-Well Assay Strip (with Frame) 12 strips* For maximum recovery of the products, centrifuge the original vial after thawing prior to opening the cap.

**Features & Benefits**

The fastest procedure, which can be finished within 3 hours.Innovative colorimetric assay to semi-quantitatively measure HDAC2 amount without the need for electrophoresis.Strip microplate format makes the assay flexible: manual or high throughput analysis.Simple, reliable, and consistent assay conditions.

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