HDAC2 Assay Kit

Cat. No. Kit-0430 **Lot. No.** (See product label)

SPECIFICATION

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,

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	HB6 and 8-Well Assay Strips at 4°C away from light; (3) Store all other components at room temperature. The kit is 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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