CREATIVE BIOMART®
Assay Kit

HDAC1 Immunoprecipitation (IP) & Activity Assay Kit

Product Information

Cat

Kit-2283

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Product Overview

Histone deacetylases (HDACs) play a central role in controlling cell cycle regulation, cell differentiation, and tissue development. HDAC1 is ubiquitously expressed and plays a role in cellular senescence, cardiomyocyte differentiation and hypertrophy, aging of the liver, myelination, and adult neurogenesis to name a few functions. The HDAC1 IP & Activity Assay Kit provides an antibody-based method to specifically immunoprecipitate the HDAC1 complex from cells & tissues and to measure HDAC1 activity fluorometrically. HDAC1 is immunoprecipitated from cell, nuclear or tissue extract(s) using HDAC1 antibody followed by capturing the complex on protein-A/G beads. The immunoprecipitated complex is incubated with the HDAC substrate. Only the deacetylated substrate is cleaved by the Developer to produce a fluorophore, which can be easily analyzed using a fluorescence plate reader.

Applications

Immunoprecipitation of HDAC1 complex from cell, nuclear, or tissueextract(s)
Measurement of HDAC1 activity of immunoprecipitated complex/purified enzyme
Screening for activators or inhibitors of HDAC1

Storage

-20°C

Shipping

Gel Pack

Size

25 assays

Kit Components

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

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HDAC Assay Buffer; Cell Lysis Buffer; HDAC Substrate; Developer; AFC (7-amino-4-trifluoromethyl coumarin) Standard (1 mM); Rabbit HDAC2 Antibody (0.2 mg/ml); Rabbit IgG (Control Antibody) (0.5 mg/ml); Protein A/G Sepharose Beads; Positive Control (Jurkat Cell Lysate) (125 μg)

Detection method Fluorescence (Ex/Em=380/500 nm)

Features & Benefits

Simple, fast and convenient.
Only kit on the market for both IP as well as measuring activity of HDAC1

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