

# 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 tissue extract(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

## HDAC1 Immunoprecipitation (IP) & Activity Assay Kit

### Kit Components

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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 &mu;g)

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

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### Features & Benefits

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Simple, fast and convenient.

Only kit on the market for both IP as well as measuring activity of HDAC1

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