

HDAC1 Immunoprecipitation (IP) & Activity Assay Kit

Cat. No. Kit-2283 **Lot. No.** (See product label)

SPECIFICATION

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
Kit Components	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);

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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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