

## Recombinant Human HDAC1 protein, His-tagged

Cat. No. HDAC1-550H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human HDAC1 protein(Met1~Ala482), fused with N-terminal His tag, was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Met1~Ala482
<b>Form</b>	20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl and 5% trehalose.
<b>Bio-activity</b>	<p>Histone deacetylase 1 (HDAC1) is an enzyme which belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. HDAC1 also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Besides, Specificity Protein 1 (Sp1) has been identified as an interactor of HDAC1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human HDAC1 and recombinant human Sp1. Briefly, HDAC1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to Sp1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-HDAC1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the</p>

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addition of substrate solution, wells were incubated 15-25 minutes at 37 °C . Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of HDAC1 and Sp1 was shown in Figure, and this effect was in a dose dependent manner.

**Molecular Mass** 70kDa

**Purity** > 95%

**Storage** Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

**Reconstitution** Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

**Gene Name** HDAC1 histone deacetylase 1 [ Homo sapiens ]

**Official Symbol** HDAC1

**Synonyms** HDAC1; histone deacetylase 1; RPD3L1; GON 10; HD1; reduced potassium dependency, yeast homolog-like 1; RPD3; GON-10; DKFZp686H12203;

**Gene ID** 3065

**mRNA Refseq** NM\_004964

**Protein Refseq** NP\_004955

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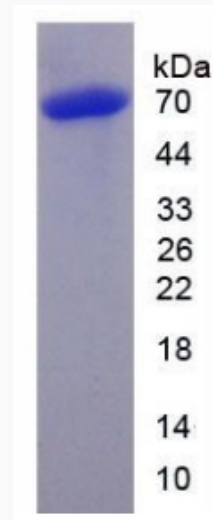
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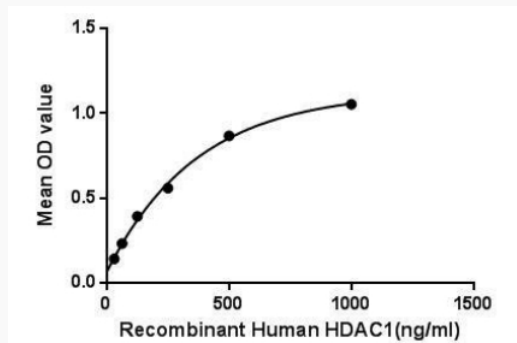
MIM 601241

UniProt ID Q13547

SDS-PAGE



Activity



The binding activity of HDAC1 with Sp1.

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