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**anti-HDAC1**

Cat #: HM1172  
Rabbit polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

Acetylation of lysine residues in the amino terminal tail domain of histone results in a change in the nucleosomal conformation and an increased accessibility to transcription factors. Conversely, the deacetylation of histones is associated with transcriptional silencing. Therefore, histone acetylation and deacetylation play a key role in the regulation of eukaryotic gene expression. Several mammalian proteins have been identified as nuclear histone acetylases, including GCN5, PCAF (for p300/CBP-associated factor), p300/CBP and the TFIID subunit TAF II p250. HDAC1 (also designated HD1), HDAC2 (also designated RPD3), HDAC3, HDAC4, HDAC5, HDAC6, HDAC7, HDAC8 and HDAC9 are all mammalian histone deacetylases, all of which are related to the yeast transcriptional regulator Rpd3p. HDAC1 interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis.

**SPECIFICITY**

This antibody specifically reacts with HDAC1 of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

**IMMUNOGEN**

A synthetic peptide derived from C-terminus of human HDAC1 protein.

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCES**

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