

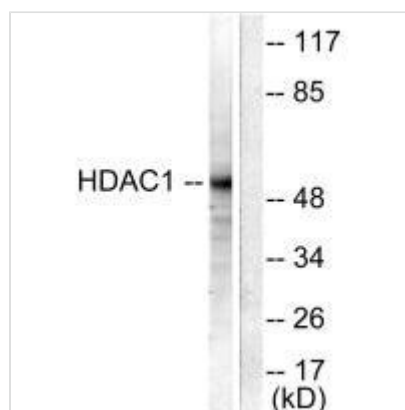


HDAC1 Antibody

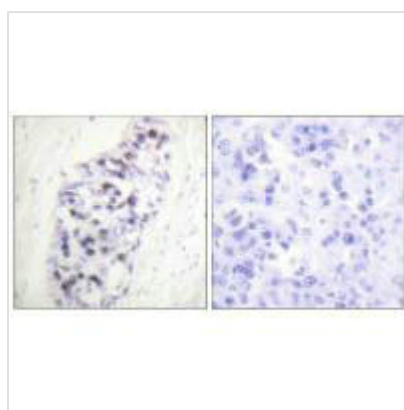
Product Code	CSB-PA157026
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q13547
Immunogen	Synthesized peptide derived from Human HDAC1.
Raised In	Rabbit
Species Reactivity	Human, Mouse, Rat
Specificity	The antibody detects endogenous levels of total HDAC1 protein.
Tested Applications	ELISA, WB, IHC; WB: 1:500-1:3000, IHC: 1:50-1:100
Relevance	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Deacetylates SP proteins, SP1 and SP3, and regulates their function. Component of the BRG1-RB1-HDAC1 complex, which negatively regulates the CREST-mediated transcription in resting neurons. Upon calcium stimulation, HDAC1 is released from the complex and CREBBP is recruited, which facilitates transcriptional activation. Deacetylates TSHZ3 and regulates its transcriptional repressor activity. Deacetylates 'Lys-310' in RELA and thereby inhibits the transcriptional activity of NF-kappa-B. Component a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development. Deacetylates NR1D2 and abrogates the effect of KAT5-mediated relieving of NR1D2 transcription repression activity. Involved in CIART-mediated transcriptional repression of the circadian transcriptional activator: CLOCK-ARNTL/BMAL1 heterodimer. Richard L. Cai, J. Biol. Chem., Sep 2000; 275: 27909. Takayoshi Matsumura, J. Biol. Chem., Apr 2005; 280: 12123 - 12129. Gregory David, J. Biol. Chem., Jun 2002; 277: 23658 - 23663. Yuh-Long Chang, PNAS, Aug 2001; 98: 9730.
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	Histone deacetylase 1; HD1; RPD3L1;
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	HDAC1



Image



Western blot analysis of extracts from NIH/3T3 cells, using HDAC1 antibody.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using HDAC1 antibody.