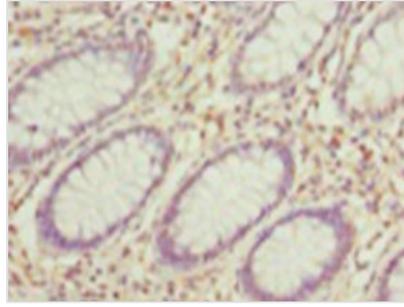


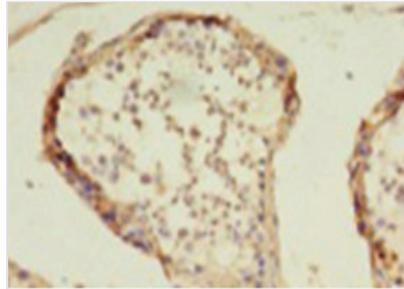


HDAC1 Antibody

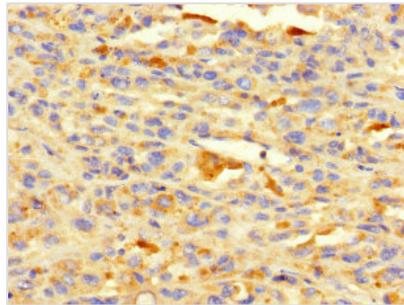
| | |
|----------------------------|--|
| Product Code | CSB-PA17869A0Rb |
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | Q13547 |
| Immunogen | Recombinant Human Histone deacetylase 1 protein (1-482AA) |
| Raised In | Rabbit |
| Species Reactivity | Human |
| Tested Applications | ELISA, IHC, IF, ChIP; Recommended dilution: IHC:1:20-1:200, IF:1:100-1:500 |
| Relevance | <p>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. Deacetylates NR1D2 and abrogates the effect of KAT5-mediated relieving of NR1D2 transcription repression activity. Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development. Involved in CIART-mediated transcriptional repression of the circadian transcriptional activator: CLOCK-ARNTL/BMAL1 heterodimer. Required for the transcriptional repression of circadian target genes, such as PER1, mediated by the large PER complex or CRY1 through histone deacetylation.</p> |
| Form | Liquid |
| Conjugate | Non-conjugated |
| Storage Buffer | Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4 |
| Purification Method | >95%, Protein G purified |
| Isotype | IgG |
| Clonality | Polyclonal |
| Alias | Histone deacetylase 1 (HD1) (EC 3.5.1.98), HDAC1, RPD3L1 |
| Species | Human |
| Research Area | Epigenetics and Nuclear Signaling |
| Target Names | HDAC1 |

**Image**

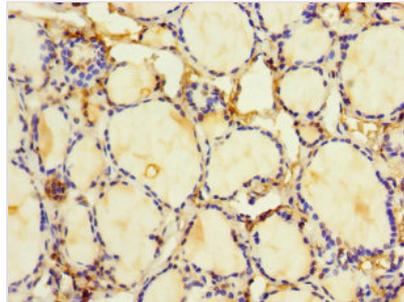
Immunohistochemistry of paraffin-embedded human testis tissue using CSB-PA17869A0Rb at dilution of 1: 100



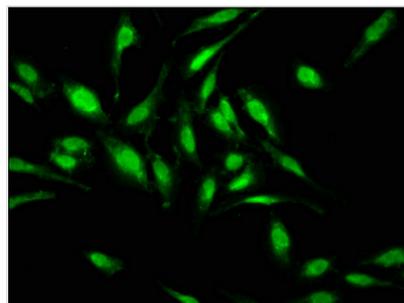
Immunohistochemistry of paraffin-embedded human colon cancer using CSB-PA17869A0Rb at dilution of 1: 100



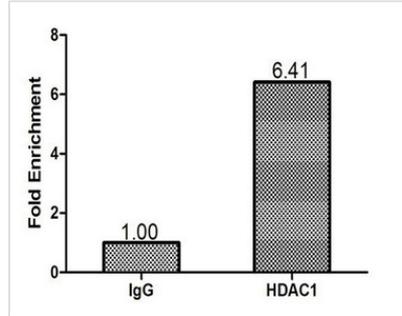
Immunohistochemistry of paraffin-embedded human melanoma using CSB-PA17869A0Rb at dilution of 1:100



Immunohistochemistry of paraffin-embedded human thyroid tissue using CSB-PA17869A0Rb at dilution of 1:100



Immunofluorescence staining of HeLa cells with CSB-PA17869A0Rb at 1:133, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Chromatin Immunoprecipitation MCF-7 (1.1×10^6) were cross-linked with formaldehyde, sonicated, and immunoprecipitated with $4\mu\text{g}$ anti-HDAC1 or a control normal rabbit IgG. The resulting ChIP DNA was quantified tissue using real-time PCR with primers (CSB-PP17869HU) against the P21 promoter.