

## Anti-HDAC-1 (C-terminus) Antibody

Catalog Number: A00256-1

### About HDAC1

HDAC-1 antibody recognizes HDAC1 (also known as HD1, histone deacetylase 1, RPD3, RPD3L1) 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. It also 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.

### Overview

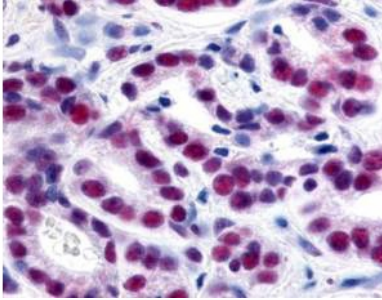
Product Name	Anti-HDAC-1 (C-terminus) Antibody
Reactive Species	Human
Description	Boster Bio Anti-HDAC-1 (C-terminus) Antibody (Catalog # A00256-1). Tested in ELISA, IF, IHC, WB applications. This antibody reacts with Human.
Application	ELISA, IF, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q13547

### Technical Details

Immunogen	Anti-HDAC-1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a C-Terminal region near amino acids 450-482 of Human HDAC-1.
Predicted Reactive Species	Canine, Monkey
Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1.33 mg/mL by UV absorbance at 280 nm

Purification	Anti-HDAC-1 antibody is directed against human HDAC-1 protein. HDAC-1 antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, mouse, rat and chimpanzee sources based on 100% homology for the immunogen sequence. Cross-reactivity may occur with HDAC-1 from bovine (82% homology) and chicken (80% homology) sources. Cross-reactivity with HDAC-1 homologues from other sources has not been determined.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:10,000 - 1:50,000</p> <p>IHC: 1:200 - 1:1,000</p> <p>IF Microscopy: 10ug / ml</p> <p>WB: 1:1,000 - 1:5,000</p>

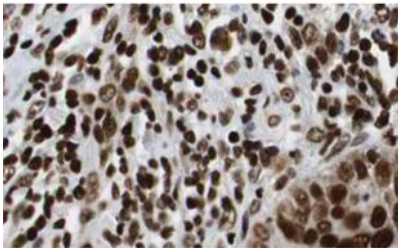
## Anti-HDAC-1 (C-terminus) Antibody (A00256-1) Images



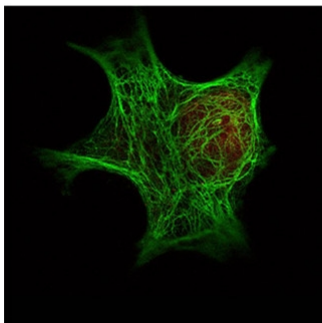
HDAC-1 was detected in paraffin-embedded sections of human prostate cancer tissue using rabbit anti-HDAC-1 Antigen Affinity purified polyclonal antibody (Catalog # A00256-1) at 1:500. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: HDAC-1 is nuclear. Staining: HDAC-1 precipitated purple with blue counterstain. Personal Communication, Alan Yen, LifeSpanBiosciences, Seattle, WA.



Western blot analysis of HDAC-1 expression in 293 whole cell lysate. HDAC-1 at 65KD was detected using rabbit anti-HDAC-1 Antigen Affinity purified polyclonal antibody (Catalog # A00256-1) at 1:3500.

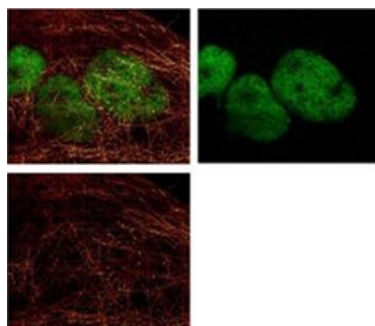


HDAC-1 was detected in paraffin-embedded sections of human lung tissue using rabbit anti-HDAC-1 Antigen Affinity purified polyclonal antibody (Catalog # A00256-1) at 10 ug/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunofluorescence Microscopy of Rabbit Anti-HDAC-1 antibody. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: HDAC-1 antibody at 10

HDAC-1 was detected in immunocytochemical sections of A431 cells using rabbit anti-HDAC-1 Antigen Affinity purified polyclonal antibody (Catalog # A00256-1) at 0.4



Western blot analysis of HDAC-1 expression in LNCaP prostate cancer cells. HDAC-1 at 55KD was detected using rabbit anti-HDAC-1 Antigen Affinity purified polyclonal antibody (Catalog # A00256-1) at 1:1000.

## 2 Publications Citing This Product

1. PubMed ID: 10.1016/j.jcca.2017.05.015, Identification of candidate biomarkers that involved in the epigenetic transcriptional regulation for detection gastric cancer by iTRAQ based quantitative proteomic analysis
2. PubMed ID: 25333250, Chen Xm, Xie Xb, Zhao Q, Wang F, Bai Y, Yin Jq, Jiang H, Xie Xi, Jia Q, Huang G. Mol Med Rep. 2015 Jan;11(1):105-12. Doi: 10.3892/Mmr.2014.2733. Epub 2014 Oct 21. Ampelopsin Induces Apoptosis By Regulating Multiple C-Myc/S-Phase Kinase-Associated ...

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