

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

Catalog Number: A00256-2

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

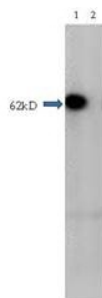
Product Name	Anti-HDAC-1 (near C-terminus) Antibody
Reactive Species	Human
Description	Boster Bio Anti-HDAC-1 (near C-terminus) Antibody (Catalog # A00256-2). Tested in ELISA, IF, IHC, WB applications. This antibody reacts with Human.
Application	ELISA, IF, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.1% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C or below prior to opening. This vial contains a relatively low volume of reagent (25 uL). To minimize loss of volume dilute 1:10 by adding 225 uL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing. 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	Primate
Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1.0 mg/mL by UV absorbance at 280 nm

Purification	<p>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.</p>
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 (near C-terminus) Antibody (A00256-2) Images



Western blot analysis of HDAC1 expression in mouse brain extract (lane 1) and mouse brain extract blocked with peptide (lane 2). HDAC1 at 62KD was detected using rabbit anti-HDAC1 Antigen Affinity purified polyclonal antibody (Catalog # A00256-2) at 1 ug/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

1 Publications Citing This Product

1. 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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