

## Anti-HDAC-4 (internal) Antibody

Catalog Number: A00971-2

### About HDAC4

HDAC4 is a 140 kD class II histone deacetylase similar to the yeast HDA1 protein. This nuclear protein operates in concert with histone acetyltransferases to control core histone acetylation in highly conserved lysine residues. HDAC activity has been associated with transcriptional repression and nucleosomal condensation. HDAC4 uses active nuclear export to shuttle between the nucleus and the cytoplasm. HDAC4 is modified by phosphorylation by CaM kinase I or IV. HDAC4 has been reported to interact with 14-3-3 in the cytoplasm and MEF2A, HDAC3, NcoR and SMRT in the nucleus. Anti-HDAC4 antibodies are ideal for researchers interested in Breast Cancer, Cancer, Cell Cycle and Replication, Chromatin Research, Epigenetics, and Histone Deacetylases research.

### Overview

Product Name	Anti-HDAC-4 (internal) Antibody
Reactive Species	Human, Mouse, Rat, Primate
Description	Boster Bio Anti-HDAC-4 (internal) Antibody (Catalog # A00971-2). Tested in WB applications. This antibody reacts with Human, Mouse, Rat, Primate.
Application	WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 50% (v/v) Glycerol
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 six (6) months from date of opening.
Host	Rabbit
Uniprot ID	P56524

### Technical Details

Immunogen	HDAC4 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the internal region surrounding 600-650aa of human HDAC4.
Predicted Reactive Species	African Green Monkey, Chimpanzee, Zebrafish
Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1 mg/mL by UV absorbance at 280 nm

Purification	Anti-HDAC4 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific towards HDAC4. A BLAST analysis was used to suggest cross-reactivity with Human, Mouse, Rat, and Primate based on 100% sequence homology. Cross-reactivity with HDAC4 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: 1:20,000 - 1:60,000</p> <p>IHC: 1 mg/mL</p> <p>IF Microscopy: 1:100-1:500</p> <p>WB: 1 mg/mL</p>

## Anti-HDAC-4 (internal) Antibody (A00971-2) Images

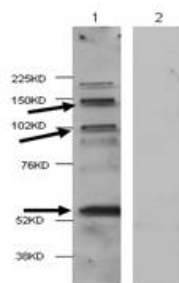


Figure 1. Western blot analysis of HDAC4 using anti-HDAC4 antibody (A00971-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HDAC4 antigen affinity purified polyclonal antibody (Catalog # A00971-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for HDAC4.

## 1 Publications Citing This Product

1. PubMed ID: 26473953, Arsenic trioxide reduces global histone H4 acetylation at lysine 16 through direct binding to histone acetyltransferase hMOF in human cells

Visit [bosterbio.com/anti-hdac-4-internal-antibody-a00971-2-boster.html](http://bosterbio.com/anti-hdac-4-internal-antibody-a00971-2-boster.html) to see all 1 publications.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-HDAC-4 (internal) Antibody