

Anti-HDAC-7 (N-terminus) Antibody

Catalog Number: A01913

About HDAC7

HDAC7 is a member of the class II mammalian histone deacetylases, which plays an important role in modulating the eukaryotic chromatin structure. Human HDAC7 is composed of 912 amino acid residues. Although HDAC7 is localized mostly to the cell nucleus, it is also found in the cytoplasm, suggesting nucleo-cytoplasmic shuttling. The histone deacetylase activity of HDAC7 maps to a carboxy-terminal domain and is dependent on interaction with class I HDACs in the nucleus. It is an active component of different transcriptional corepressor complexes that can be recruited to specific promoter regions via interactions with a growing number of sequence specific transcriptional factors. HDAC7 catalyzes removal of acetyl-groups from acetyl-lysines of histones and promotes compaction of chromatin in these regions, leading to the inhibition of gene transcription. Anti-HDAC7 antibodies are ideal for researches interested in Breast Cancer, Cancer, Cell Cycle and Replication, Chromatin Research, Epigenetics, and Histone Deacetylases research.

Overview

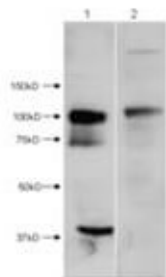
Product Name	Anti-HDAC-7 (N-terminus) Antibody
Reactive Species	Human, Mouse, Rat, Primate
Description	Boster Bio Anti-HDAC-7 (N-terminus) Antibody (Catalog # A01913). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat, Primate.
Application	ELISA, IF, IHC, WB
Clonality	Polyclonal
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 six (6) months from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q8WU14

Technical Details

Immunogen	HDAC7 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the N terminal region of human HDAC7.
Predicted Reactive Species	Primate
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

Form	Liquid (sterile filtered)
Concentration	1.16 mg/ml by UV absorbance at 280 nm
Purification	Anti-HDAC7 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific towards HDAC7. A BLAST analysis was used to suggest cross-reactivity with Human, Mouse, Rat and Primate based on 100% sequence homology. Cross-reactivity with HDAC7 from other sources has not been determined.
Suggested Dilutions	ELISA: 1:20,000 - 1:60,000 IHC: 1:100-1:500 IF Microscopy: 1:100-1:500 WB: 1 µg/ml Anti-HDAC7 antibody has been tested by ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~103kDa and isoforms at ~70, and 40 kDa corresponding to the appropriate cell lysate or extract.

Anti-HDAC-7 (N-terminus) Antibody (A01913) Images



Western Blot of Rabbit anti-HDAC7 antibody. Lane 1: mouse brain homogenate. Lane 2: mouse brain homogenate blocked with peptide. Load: 4 μ g per lane. Primary antibody: HDAC7 antibody at 1 μ g/mL for overnight at 4°C. Secondary antibody: HRP rabbit secondary antibody at 1:40,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~103kDa/ ~103, 70, and 40kDa for HDAC7. Other band(s): HDAC7 isoforms ~70 and 40kDa.

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