

Anti-HDAC-5 (internal) Antibody

Catalog Number: A01230

About HDAC5

HDAC5 is a member of the class II mammalian histone deacetylase family, which is structurally related to yeast HDA1. Human HDAC5 is composed of 1122 amino acid residues. The deacetylase domain of HDAC5 is located at the C-terminal half of the molecule. The N-terminal non-deacetylase domain does not show any significant homology with any published sequence. Both domains are required for HDAC5-mediated repression of gene transcription. HDAC5 interacts with a growing number of transcriptional factors including MEF2A as well as other HDAC proteins. The interacting complexes bind to specific regions of chromatin and regulate gene transcription in these regions. Anti-HDAC5 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-5 (internal) Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-HDAC-5 (internal) Antibody (Catalog # A01230). Tested in Dot blot, ELISA, WB applications. This antibody reacts with Human, Mouse.
Application	Dot blot, ELISA, 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. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q9UQL6

Technical Details

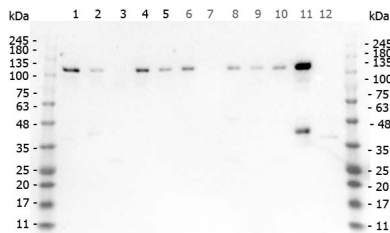
Immunogen	HDAC5 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the internal region surrounding phosphoserine 661 of human HDAC5.
Predicted Reactive Species	African Green Monkey, Chimpanzee, Zebrafish
Isotype	IgG
Form	Liquid (sterile filtered)

Concentration	1.12 mg/mL by UV absorbance at 280 nm
Purification	Anti-HDAC5 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific towards HDAC5. A BLAST analysis was used to suggest cross-reactivity with Human based on 100% sequence homology. Cross-reactivity with HDAC5 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: 1:100-1:500</p> <p>IF Microscopy: 1:100-1:500</p> <p>WB: 0.2 µg/ml</p>

Anti-HDAC-5 (internal) Antibody (A01230) Images



Western blot analysis of HDAC5 expression in mouse brain extract, 5



Western blot analysis of HDAC5 expression in HEK293 cell lysates (lane 1), HeLa cell lysates (lane 2), MCF-7 cell lysates (lane 3), Jurkat cell lysates (lane 4), A431 cell lysates (lane 5), A549 cell lysates (lane 6), LNCap cell lysates (lane 7), MOLT-4 (lane 8), Ramos cell lysates (lane 9), Raji cell lysates (lane 10), A-172 cell lysates (lane 11) and NIH/3T3 cell lysates (lane 12). HDAC5 at 124kDa was detected using rabbit anti-HDAC5 affinity purified polyclonal antibody (Catalog # A01230) at 1

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