

Datasheet for ABIN1607889
anti-HDAC7 antibody (N-Term)



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1 Image

Overview

Quantity:	100 µg
Target:	HDAC7
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Primate
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

Product Details

Purpose:	HDAC7 (N-terminus) Antibody
Immunogen:	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. Immunogen Type: Conjugated Peptide
Cross-Reactivity (Details):	This antibody is specific towards HDAC7.
Characteristics:	Synonyms: rabbit anti-HDAC-7 antibody, HDAC7, HDAC 7, HD 7 antibody, histone deacetylase 7 antibody, Histone deacetylase-7, HD7A antibody, histone deacetylase 7A antibody, Histone deacetylase-7A, HDAC7A, HDAC 7A, HDAC-7A, HD-7A
Purification:	Anti-HDAC7 was affinity purified from monospecific antiserum by immunoaffinity chromatography.
Sterility:	Sterile filtered

Target Details

Target:	HDAC7
Alternative Name:	HDAC7 (HDAC7 Products)
Background:	<p>Background: 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.</p>
Gene ID:	51564
NCBI Accession:	NP_001091886
UniProt:	Q8WUI4
Pathways:	Regulation of Muscle Cell Differentiation, Cell-Cell Junction Organization, Skeletal Muscle Fiber Development

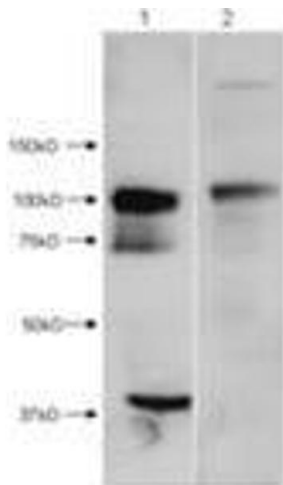
Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 1:100-1:500</p> <p>Application Note: 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 ~103 kDa and isoforms at ~70, and 40 kDa corresponding to the appropriate cell lysate or extract.</p> <p>Western Blot Dilution: 1 µg/mL</p> <p>ELISA Dilution: 1:20,000 - 1:60,000</p> <p>IF Microscopy Dilution: 1:100-1:500</p> <p>Other: User Optimized</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.55 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	6 months

Images



Western Blotting

Image 1. Western Blot of Rabbit anti-HDAC7 antibody. Lane 1: mouse brain homogenate. Lane 2: mouse brain homogenate blocked with peptide. Load: 4 µg per lane. Primary antibody: HDAC7 antibody at 1µg/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.