

Datasheet for ABIN1607889
anti-HDAC7 antibody (N-Term)[Go to Product page](#)

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

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: Peptide
Cross-Reactivity (Details):	Cross reactivity with HDAC7 from other sources has not been determined.
Purity:	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.
Endotoxin Level:	Low Endotoxin : No

Target Details

Target:	HDAC7
Alternative Name:	HDAC7 (HDAC7 Products)
Background:	<p>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. Synonyms: DKFZP586J0917, EC 3.5.1.98, HD7, HD7A, HD7a, HDAC7AFLJ99588, histone deacetylase 7, Histone deacetylase 7ADKFZp586J0917</p>
Gene ID:	51564
NCBI Accession:	NP_001091886
UniProt:	Q8WUI4
Pathways:	Regulation of Muscle Cell Differentiation , Cell-Cell Junction Organization , Skeletal Muscle Fiber Development

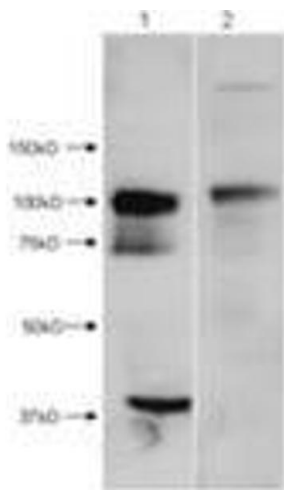
Application Details

Application Notes:	<p>Anti-HDAC7 antibody is useful for 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.</p> <p>ELISA Dilution: 1:20.000 - 1:60.000</p> <p>Immunohistochemistry Dilution: 1:100-1:500</p> <p>IF Microscopy Dilution: 1:100-1:500</p> <p>Western Blot Dilution: 1 µg/mL</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.55 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol
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:	Expiration date is six (6) months from date of opening.

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.