

Datasheet for ABIN6719320
anti-HDAC3 antibody (AA 1-428)



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Overview

Quantity:	100 µg
Target:	HDAC3
Binding Specificity:	AA 1-428
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-HDAC3 Antibody Picoband®
Immunogen:	E.coli-derived human HDAC3 recombinant protein (Position: M1-I428).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-HDAC3 Antibody Picoband® (ABIN6719320). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	HDAC3
Alternative Name:	HDAC3 (HDAC3 Products)
Background:	Synonyms: Histone deacetylase 3, HD3, RPD3-2, SMAP45, HDAC3 Tissue Specificity: Widely expressed. Background: HDAC3 (HISTONE DEACETYLASE 3) is a member of the histone deacetylase/acuc/apha family of proteins that is an enzyme that in humans is encoded by the HDAC3 gene. The HDAC3 gene is mapped to 5q31.3. HDAC3 has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. The protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. And this gene is regarded as a potential tumor suppressor gene. HDAC3 has an open reading frame of 428 amino acids and shares 53 % amino acid identity with HDAC1 and 52 % with HDAC2. The catalytic domain of HDAC4 interacts with HDAC3 via the transcriptional corepressor NCOR2. All experimental conditions leading to the suppression of HDAC4 binding to NCOR2 and to HDAC3 resulted in loss of enzymatic activity associated with HDAC4. HDAC3 recruitment to the genome displays a circadian rhythm in mouse liver.
Molecular Weight:	49 kDa
Gene ID:	8841
UniProt:	O15379
Pathways:	Neurotrophin Signaling Pathway , Regulation of Lipid Metabolism by PPARalpha , Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells ELISA, 0.1-0.5 µg/mL 1. Alenghat, T., Meyers, K., Mullican, S. E., Leitner, K., Adeniji-Adele, A., Avila, J., Bucan, M., Ahima, R. S., Kaestner, K. H., Lazar, M. A. Nuclear receptor corepressor and histone deacetylase 3 govern circadian metabolic physiology. Nature 456: 997-1000, 2008. 2. Chen, L., Fischle, W., Verdin, E., Greene, W. C. Duration of nuclear NF-kappa-B action regulated by reversible acetylation. Science 293: 1653-1657, 2001. 3. Dangond F, Hafler DA, Tong JK, Randall J, Kojima R, Utku N, Gullans SR (Mar 1998). "Differential display cloning of a novel human histone deacetylase (HDAC3) cDNA from PHA-activated immune cells". Biochem Biophys Res Commun
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Application Details

	242 (3): 648-52. doi:10.1006/bbrc.1997.8033.
Comment:	Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.