

Datasheet for ABIN2778342

anti-HDAC4 antibody (Middle Region)



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3 Images

Overview

Quantity:	100 µL
Target:	HDAC4
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Cow, Guinea Pig, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human HDAC4
Sequence:	YLDRLPGQKE AHAQAGVQVK QEPIESDEEE AEPPREVEPG QRQPSEQELL
Predicted Reactivity:	Cow: 100%, Dog: 93%, Guinea Pig: 100%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against HDAC4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	HDAC4
Alternative Name:	HDAC4 (HDAC4 Products)

Target Details

Background:	<p>Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. HDAC4 belongs to class II of the histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. This protein does not bind DNA directly, but through transcription factors MEF2C and MEF2D. It seems to interact in a multiprotein complex with RbAp48 and HDAC3. Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class II of the histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. This protein does not bind DNA directly, but through transcription factors MEF2C and MEF2D. It seems to interact in a multiprotein complex with RbAp48 and HDAC3. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> <p>Alias Symbols: HA6116, HD4, HDAC-A, HDACA, KIAA0288, AHO3, BDMR, HDAC-4</p> <p>Protein Interaction Partner: UBC, TP53BP1, KRT31, MTUS2, KDM5B, HDAC5, NCOR2, PNMA1, KRT38, YWHAG, KRT40, CCDC136, RINT1, ANKRA2, EFEMP2, LDOC1, GSK3B, GOLGA2, CDR2, BCL6, YWHAQ, YWHAB, YWHAЕ, SIRT1, UBE2I, TBL1XR1, HDAC4, NCOR1, YWHAZ, YWHAH, SFN, MIF4GD, ZBTB7B, APP, ATF3, JDP2, Bt</p> <p>Protein Size: 1084</p>
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Molecular Weight:	119 kDa
Gene ID:	9759
NCBI Accession:	NM_006037 , NP_006028
UniProt:	P56524
Pathways:	Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development , Regulation of Carbohydrate Metabolic Process

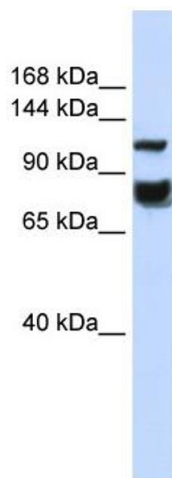
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1084 AA
Restrictions:	For Research Use only

Handling

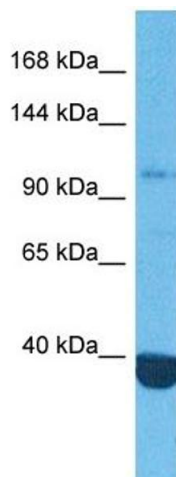
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



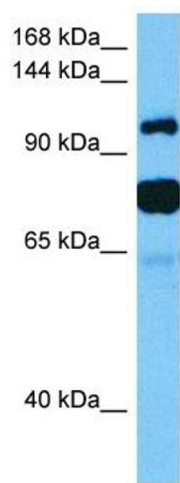
Western Blotting

Image 1. WB Suggested Anti-HDAC4 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:12500 Positive Control: Hela cell lysate



Western Blotting

Image 2. Host: Rabbit Target Name: HDAC4 Sample Tissue: Human MCF7 Whole Cell Antibody Dilution: 1ug/ml



Western Blotting

Image 3. Host: Mouse Target Name: HDAC4 Sample Tissue: Mouse Testis Antibody Dilution: 1ug/ml