

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 AEPREVEPG 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 ( <a href="#">HDAC4 Products</a> )

## Target Details

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**Background:** 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.

Alias Symbols: HA6116, HD4, HDAC-A, HDACA, KIAA0288, AHO3, BDMR, HDAC-4

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, YWHAE, SIRT1, UBE2I, TBL1XR1, HDAC4, NCOR1, YWHAZ, YWHAH, SFN, MIF4GD, ZBTB7B, APP, ATF3, JDP2, Bt

Protein Size: 1084

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Molecular Weight: 119 kDa

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Gene ID: 9759

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NCBI Accession: [NM\\_006037](#), [NP\\_006028](#)

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UniProt: [P56524](#)

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Pathways: [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#), [Regulation of Carbohydrate Metabolic Process](#)

## Application Details

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Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

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Comment: Antigen size: 1084 AA

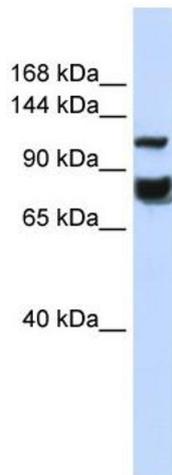
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Restrictions: For Research Use only

## Handling

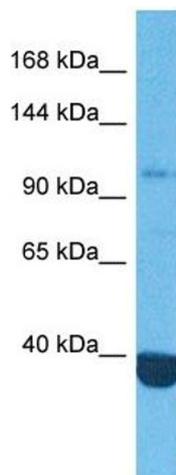
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained 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



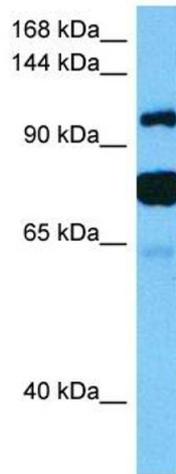
### Western Blotting

**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