

Datasheet for ABIN657638

anti-HDAC4 antibody (C-Term)[Go to Product page](#)**3** Images

Overview

Quantity:	400 µL
Target:	HDAC4
Binding Specificity:	AA 1049-1077, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This HDAC4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1049-1077 amino acids from the C-terminal region of human HDAC4.
Clone:	RB33667
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	HDAC4
Alternative Name:	HDAC4 (HDAC4 Products)

Target Details

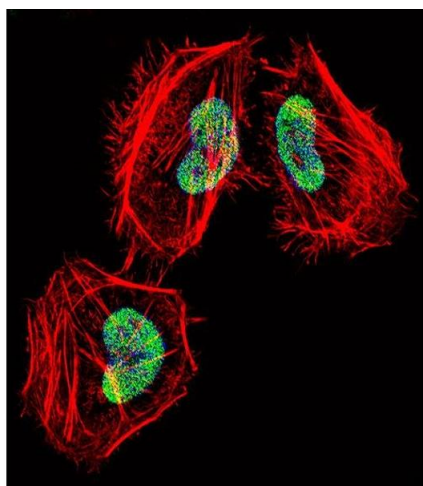
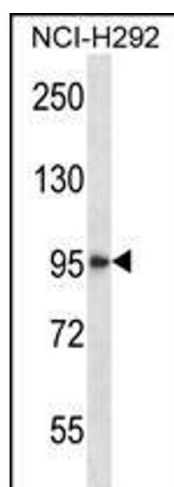
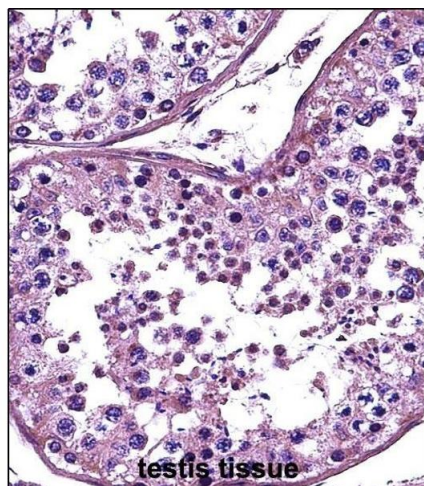
Background:	Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class II of the histone 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.
Molecular Weight:	119040
Gene ID:	9759
NCBI Accession:	NP_006028
UniProt:	P56524
Pathways:	Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development , Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (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:	HDAC4 Antibody (C-term) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, place the at -20 °C.
Expiry Date:	6 months



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. HDAC4 Antibody (C-term) (ABIN657638 and ABIN2846634) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of HDAC4 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Western Blotting

Image 2. HDAC4 Antibody (C-term) (ABIN657638 and ABIN2846634) western blot analysis in NCI- cell line lysates (35 µg/lane). This demonstrates the HDAC4 antibody detected the HDAC4 protein (arrow).

Immunofluorescence

Image 3. Fluorescent confocal image of HeLa cell stained with HDAC4 Antibody (C-term) (ABIN657638 and ABIN2846634). HeLa cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with HDAC4 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C). Nuclei were counterstained with DAPI (blue) (10 µg/mL, 10 min). HDAC4 immunoreactivity is localized to Nucleus significantly.