

Datasheet for ABIN2668313
anti-HDAC4 antibody (AA 194-209)



[Go to Product page](#)

2 Images

9 Publications

Overview

Quantity:	100 µg
Target:	HDAC4
Binding Specificity:	AA 194-209
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC4 antibody is un-conjugated
Application:	Western Blotting (WB), Chromatin Immunoprecipitation (ChIP), ChIP DNA-Sequencing (ChIP-seq)

Product Details

Immunogen:	This HDAC4 antibody was raised against a synthetic peptide corresponding to amino acid residues 194-209 of human HDAC4.
Isotype:	IgG
Purification:	Affinity Purified

Target Details

Target:	HDAC4
Alternative Name:	HDAC4 (HDAC4 Products)
Molecular Weight:	140 kDa

Target Details

Gene ID:	9759
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development, Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 µg/µL
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 and keep on ice when not in storage.
Storage:	-80 °C
Storage Comment:	Antibodies in solution can be stored at -80 °C for 2 years.
Expiry Date:	6 months

Publications

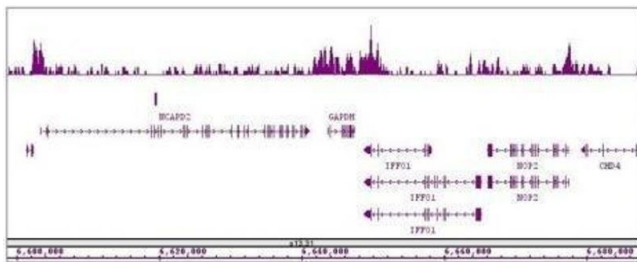
Product cited in:	<p>Liu, Gu, Feng, Yang, Zhu, Lu, Qi: "Both HDAC5 and HDAC6 are required for the proliferation and metastasis of melanoma cells." in: Journal of translational medicine, Vol. 14, pp. 7, (2016) (PubMed).</p> <p>Isaacs, Antony, Dalrymple, Brennen, Gerber, Hammers, Wissing, Kachhap, Luo, Xing, Björk, Olsson, Björk, Leanderson: "Tasquinimod Is an Allosteric Modulator of HDAC4 survival signaling within the compromised cancer microenvironment." in: Cancer research, Vol. 73, Issue 4, pp. 1386-99, (2013) (PubMed).</p> <p>Keedy, Archin, Gates, Espeseth, Hazuda, Margolis: "A limited group of class I histone deacetylases acts to repress human immunodeficiency virus type 1 expression." in: Journal of virology, Vol. 83, Issue 10, pp. 4749-56, (2009) (PubMed).</p>
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Mottet, Bellahcène, Pirotte, Waltregny, Deroanne, Lamour, Lidereau, Castronovo: "Histone deacetylase 7 silencing alters endothelial cell migration, a key step in angiogenesis." in: **Circulation research**, Vol. 101, Issue 12, pp. 1237-46, (2007) ([PubMed](#)).

Sayeed, Konduri, Liu, Bansal, Li, Das: "Estrogen receptor alpha inhibits p53-mediated transcriptional repression: implications for the regulation of apoptosis." in: **Cancer research**, Vol. 67, Issue 16, pp. 7746-55, (2007) ([PubMed](#)).

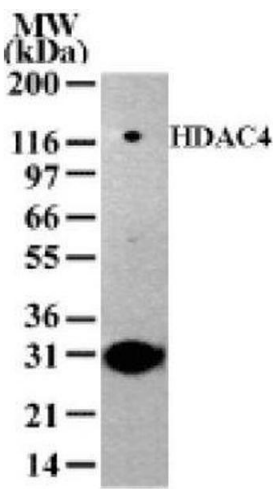
There are more publications referencing this product on: [Product page](#)

Images



ChIP DNA-Sequencing

Image 1. HDAC4 antibody (pAb) tested by ChIP-Seq. ChIP was performed using the CHIP-IT® High Sensitivity Kit (Cat. No. 53040) with 30 ug of chromatin from HeLa cells and 4 µg of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 20 million sequence tags were mapped to identify HDAC4 binding sites. The image shows binding across a region of chromosome 12. You can view the complete data set in the UCSC Genome Browser, starting at this specific location, here.



Western Blotting

Image 2. HDAC4 antibody (pAb) tested by Western blot. Detection of HDAC4 by Western blot. The analysis was performed using 293 nuclear extract and HDAC4 pAb. A protein band of approximate molecular weight of 140 kDa was detected.