

Datasheet for ABIN2781487
anti-HDAC4 antibody (C-Term)



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3 Images

Overview

Quantity:	100 µL
Target:	HDAC4
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Zebrafish (Danio rerio), Guinea Pig, Horse, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC4 antibody is un-conjugated
Application:	Western Blotting (WB), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C-terminal region of Mouse Hdac4
Sequence:	SSTVGHSLIE AQKCEKEEAE TVTAMASLSV GVKPAEKRSE EEPMEEEPPL
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 77%, Human: 100%, Mouse: 86%, Rat: 93%, Yeast: 82%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against Hdac4. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	HDAC4
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Target Details

Alternative Name:	Hdac4 (HDAC4 Products)
Background:	<p>Hdac4 is responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Involved in muscle maturation via its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D.</p> <p>Alias Symbols: 4932408F19Rik, AI047285</p> <p>Protein Interaction Partner: Rfxank, Mef2d, Mef2c, Mef2a, Dnajb6, Tnf, Runx2, Myocd, Ppp2ca, Gli2, Creb1, Atm, Ywhab, Ifrd1,</p> <p>Protein Size: 1076</p>
Molecular Weight:	118 kDa
Gene ID:	208727
NCBI Accession:	NM_207225 , NP_997108
UniProt:	Q6NZM9
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: 1076 AA
Restrictions:	For Research Use only

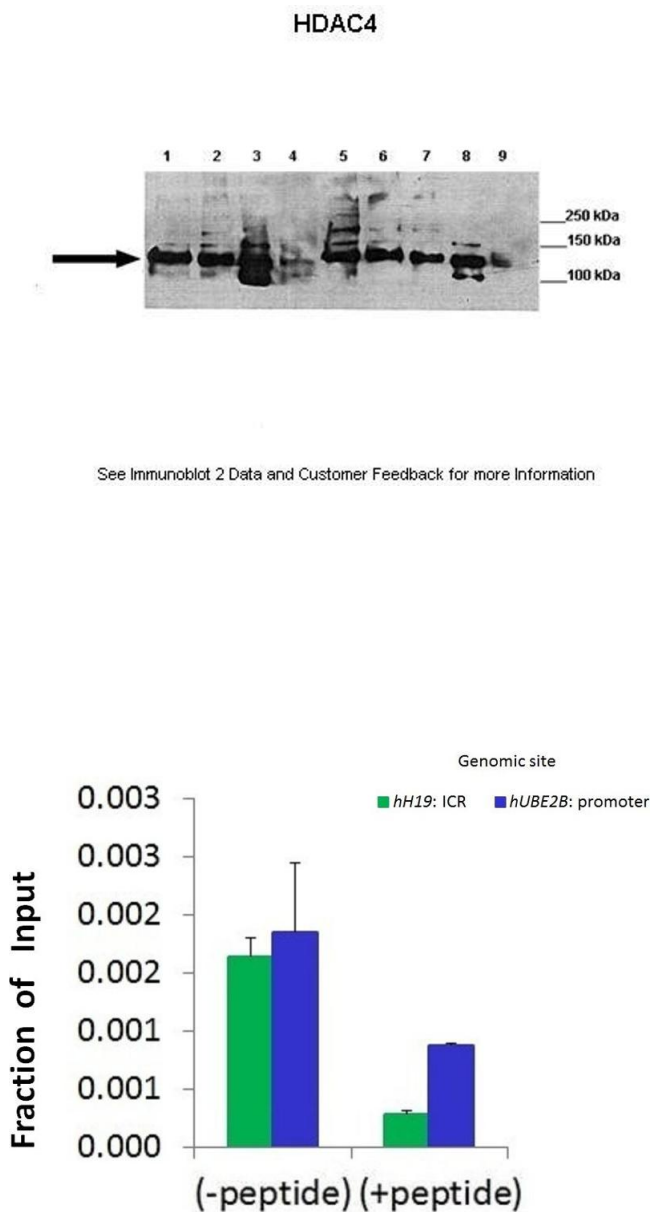
Handling

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

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

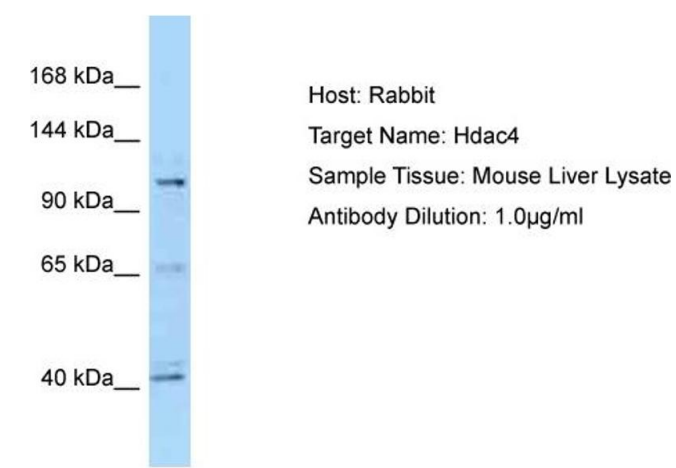


Western Blotting

Image 1. Lanes: Lane 1: 40ug mouse brain, synaptosome lysate Lane 2: 40ug mouse brain, membrane fraction Lane 3: 40ug mouse brain, cytoplasm fraction Lane 4: 40ug mouse brain, nuclear fraction Lane 5: 40ug mouse brain, post synaptic density fraction Lane 6: 40ug mouse brain, synaptosome lysate Lane 7: 40ug mouse brain, membrane fraction Lane 8: 40ug mouse brain, cytoplasm fraction Lane 9: 40ug mouse brain, nuclear fraction Primary Antibody Dilution: 1:1000 Secondary Antibody: Goat anti-rabbit HRP Secondary Antibody Dilution: 1:2000 Gene Name: Hdac4 Submitted by: Wen-Cheng Xiong, Georgia Health Sciences University

Chromatin Immunoprecipitation

Image 2. Chromatin Immunoprecipitation (ChIP) Using Hdac4 Antibody - C-terminal region and HCT116 Cells



Western Blotting

Image 3. WB Suggested Anti-Hdac4 Antibody Titration: 1.0 ug/ml Positive Control: Mouse Liver