

Hdac4 Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12303**Specification**

Hdac4 Antibody - C-terminal region - Product Information

Application	WB, CHIP
Primary Accession	Q6NZM9
Other Accession	NM_207225 , NP_997108
Reactivity	Human, Mouse, Rat, Zebrafish, Horse, Yeast, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Zebrafish, Pig, Horse, Yeast, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	118kDa KDa

Hdac4 Antibody - C-terminal region - Additional Information**Gene ID** 208727

Alias Symbol	4932408F19Rik, AI047285
Other Names	
Histone deacetylase 4, HD4, 3.5.1.98, Hdac4	

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Hdac4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Hdac4 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Hdac4 Antibody - C-terminal region - Protein Information

Name Hdac4

Function

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. Deacetylates HSPA1A and HSPA1A at 'Lys-77' leading to their preferential binding to co-chaperone STUB1.

Cellular Location

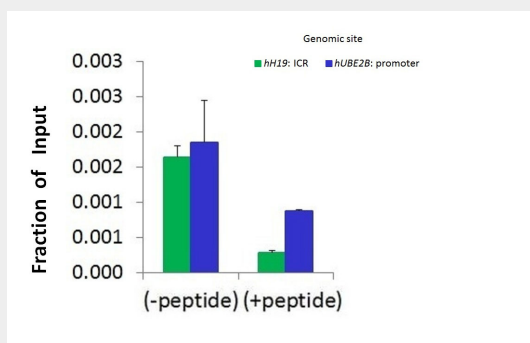
Nucleus. Cytoplasm. Note=Shuttles between the nucleus and the cytoplasm. Upon muscle cells differentiation, it accumulates in the nuclei of myotubes, suggesting a positive role of nuclear HDAC4 in muscle differentiation. The export to cytoplasm depends on the interaction with a 14-3-3 chaperone protein and is due to its phosphorylation at Ser-245, Ser-465 and Ser-629 by CaMK4 and SIK1. The nuclear localization probably depends on sumoylation (By similarity) Interaction with SIK3 leads to HDAC4 retention in the cytoplasm (PubMed:22318228). {ECO:0000250, ECO:0000269|PubMed:22318228}

Hdac4 Antibody - C-terminal region - Protocols

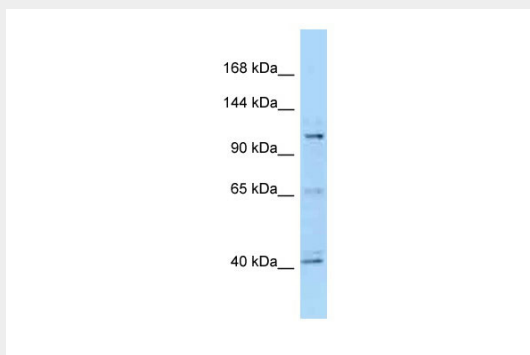
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

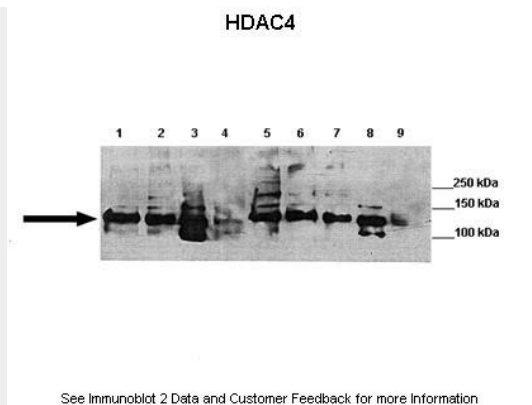
Hdac4 Antibody - C-terminal region - Images



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



WB Suggested Anti-Hdac4 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Liver



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

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