10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Histone Deacetylase 5/9 Antibody
Catalog # AP53852

Specification

Anti-Histone Deacetylase 5/9 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q9UQL6
Other Accession	Q9UKV0
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**121978**

Anti-Histone Deacetylase 5/9 Antibody - Additional Information

Gene ID 10014

Other Names
HDAC5; KIAA0600; Histone deacetylase 5; HD5; Antigen NY-CO-9; HDAC9; HDAC7; HDAC7B; HDRP; KIAA0744; MITR; Histone deacetylase 9; HD9; Histone deacetylase 7B; HD7; HD7b; Histone deacetylase-related protein; MEF2-interacting transcription repressor MITR

Target/Specificity
KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Histone Deacetylase 5/9. The exact sequence is proprietary.

Dilution
WB~~1/500 - 1/1000
IHC~~1:100~500

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-Histone Deacetylase 5/9 Antibody - Protein Information

Name HDAC5

Synonyms KIAA0600

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 by repressing transcription of myocyte enhancer MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer. Serves as a corepressor of RARA and causes its deacetylation (PubMed:28167758). In association with RARA, plays a role in the repression of microRNA-10a and thereby in the inflammatory response (PubMed:28167758).

Cellular Location
Nucleus. Cytoplasm. Note=Shuttles between the nucleus and the cytoplasm. In muscle cells, it shuttles into the cytoplasm during myocyte differentiation. The export to cytoplasm depends on the interaction with a 14-3-3 chaperone protein and is due to its phosphorylation at Ser-259 and Ser-498 by AMPK, CaMK1 and SIK1

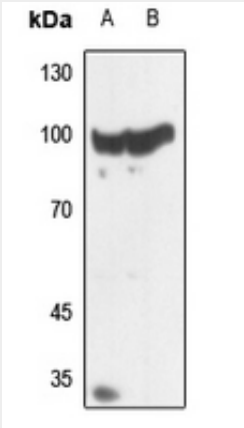
Tissue Location
Ubiquitous.

Anti-Histone Deacetylase 5/9 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Histone Deacetylase 5/9 Antibody - Images



Western blot analysis of Histone Deacetylase 5/9 expression in mouse muscle (A), rat muscle (B) whole cell lysates.

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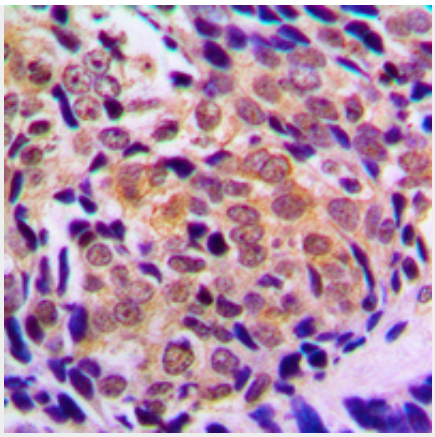

Immunohistochemical analysis of Histone Deacetylase 5/9 staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-Histone Deacetylase 5/9 Antibody - Background

Rabbit polyclonal antibody to Histone Deacetylase 5/9