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Anti-Histone Deacetylase 10 Antibody

Rabbit polyclonal antibody to Histone Deacetylase 10
Catalog # AP59879

Specification

Anti-Histone Deacetylase 10 Antibody - Product Information

Application	**WB, IF/IC, IHC**
Primary Accession	Q969S8
Other Accession	Q6P3E7
Reactivity	**Human, Mouse, Rat, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**71445**

Anti-Histone Deacetylase 10 Antibody - Additional Information

Gene ID 83933

Other Names
Histone deacetylase 10; HD10

Target/Specificity
Recognizes endogenous levels of Histone Deacetylase 10 protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)
IF/IC~~N/A
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 10 Antibody - Protein Information

Name HDAC10

Function
Polyamine deacetylase (PDAC), which acts preferentially on N(8)-acetylspermidine, and also on acetylcadaverine and acetylputrescine (PubMed:28516954). Exhibits attenuated catalytic activity toward N(1),N(8)-diacetylspermidine and very low activity, if any, toward N(1)-acetylspermidine (PubMed:28516954). Histone deacetylase activity has been observed in vitro (PubMed:11677242,

PubMed:11726666, PubMed:11739383, PubMed:11861901). Has also been shown to be involved in MSH2 deacetylation (PubMed:26221039). The physiological relevance of protein/histone deacetylase activity is unclear and could be very weak (PubMed:28516954). May play a role in the promotion of late stages of autophagy, possibly autophagosome- lysosome fusion and/or lysosomal exocytosis in neuroblastoma cells (PubMed:23801752, PubMed:29968769). May play a role in homologous recombination (PubMed:21247901). May promote DNA mismatch repair (PubMed:26221039).

Cellular Location
Cytoplasm. Nucleus Note=Excluded from nucleoli.

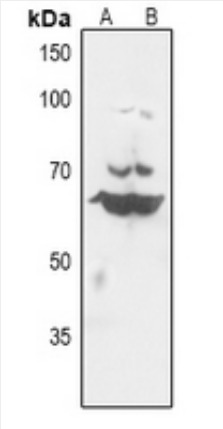
Tissue Location
Widely expressed with high levels in liver and kidney.

Anti-Histone Deacetylase 10 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 10 Antibody - Images



Western blot analysis of Histone Deacetylase 10 expression in rat live (A), rat kidney (B) whole cell lysates.

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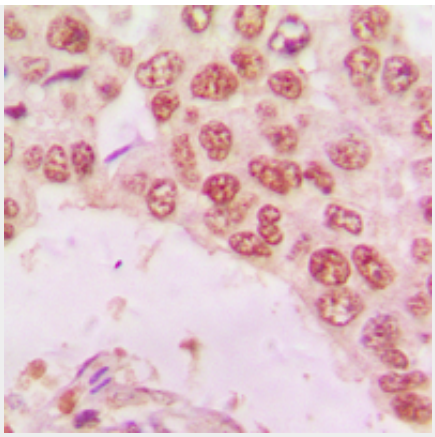
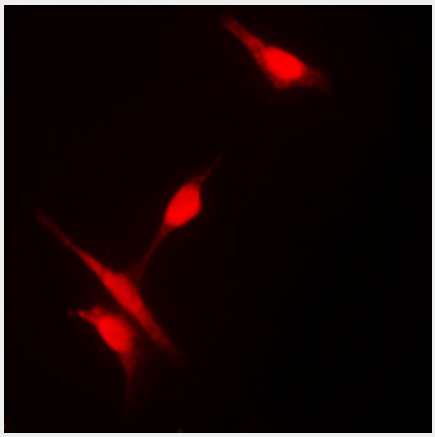


Immunohistochemical analysis of Histone Deacetylase 10 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature 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.



Immunofluorescent analysis of Histone Deacetylase 10 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Anti-Histone Deacetylase 10 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Histone Deacetylase 10. The exact sequence is proprietary.