

# Histone deacetylase 10 Polyclonal Antibody

Catalog # AP70329

#### Specification

## Histone deacetylase 10 Polyclonal Antibody - Product Information

Application Primary Accession Reactivity Host Clonality WB, IHC-P <u>096958</u> Human, Mouse, Rat, Monkey Rabbit Polyclonal

#### Histone deacetylase 10 Polyclonal Antibody - Additional Information

Gene ID 83933

Other Names HDAC10; Histone deacetylase 10; HD10

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A

**Format** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions** -20°C

## Histone deacetylase 10 Polyclonal Antibody - Protein Information

Name HDAC10

#### Function

Polyamine deacetylase (PDAC), which acts preferentially on N(8)-acetylspermidine, and also on acetylcadaverine and acetylputrescine (PubMed:<a

href="http://www.uniprot.org/citations/28516954" target="\_blank">28516954</a>). Exhibits
attenuated catalytic activity toward N(1),N(8)-diacetylspermidine and very low activity, if any,
toward N(1)-acetylspermidine (PubMed:<a href="http://www.uniprot.org/citations/28516954"
target="\_blank">28516954</a>). Histone deacetylase activity has been observed in vitro
(PubMed:<a href="http://www.uniprot.org/citations/11677242" target="\_blank">11677242</a>,
PubMed:<a href="http://www.uniprot.org/citations/11726666" target="\_blank">11726666</a>,
PubMed:<a href="http://www.uniprot.org/citations/11726666" target="\_blank">11726666</a>,
PubMed:<a href="http://www.uniprot.org/citations/11739383" target="\_blank">11861901</a>,
PubMed:<a href="http://www.uniprot.org/citations/11739383" target="\_blank">11861901</a>,
PubMed:<a href="http://www.uniprot.org/citations/11861901" target="\_blank">11861901</a>,
PubMed:<a href="http://www.uniprot.org/citations/26221039" target="\_blank">26221039</a>,
PubMed:<a href="http://www.uniprot.org/citations/26221039" target="\_blank">2

physiological relevance of protein/histone deacetylase activity is unclear and could be very weak (PubMed:<a href="http://www.uniprot.org/citations/28516954" target="\_blank">28516954</a>).



May play a role in the promotion of late stages of autophagy, possibly autophagosome- lysosome fusion and/or lysosomal exocytosis in neuroblastoma cells (PubMed:<a href="http://www.uniprot.org/citations/23801752" target="\_blank">23801752</a>, PubMed:<a href="http://www.uniprot.org/citations/29968769" target="\_blank">29968769</a>). May play a role in homologous recombination (PubMed:<a href="http://www.uniprot.org/citations/21247901" target="\_blank">21247901</a>). May promote DNA mismatch repair (PubMed:<a href="http://www.uniprot.org/citations/21247901" target="\_blank">26221039</a>).

**Cellular Location** 

Cytoplasm. Nucleus Note=Excluded from nucleoli.

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

#### Histone deacetylase 10 Polyclonal Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Histone deacetylase 10 Polyclonal Antibody - Images



## Histone deacetylase 10 Polyclonal Antibody - Background

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:11861901,



PubMed:11726666, PubMed:11677242, PubMed:11739383). 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).