

# Histone deacetylase 10 Polyclonal Antibody

Catalog # AP70329

## Product Information

---

<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q969S8</a>
<b>Reactivity</b>	Human, Mouse, Rat, Monkey
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	71445

## Additional Information

---

<b>Gene ID</b>	83933
<b>Other Names</b>	HDAC10; Histone deacetylase 10; HD10
<b>Dilution</b>	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 IF~~1:50~200 ICC~~N/A E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

---

<b>Name</b>	HDAC10
<b>Function</b>	<p>Polyamine deacetylase (PDAC), which acts preferentially on N(8)-acetylspermidine, and also on acetylcadaverine and acetylputrescine (PubMed:<a href="#">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="#">28516954</a>). Histone deacetylase activity has been observed in vitro (PubMed:<a href="#">11677242</a>, PubMed:<a href="#">11726666</a>, PubMed:<a href="#">11739383</a>, PubMed:<a href="#">11861901</a>). Has also been shown to be involved in MSH2 deacetylation (PubMed:<a href="#">26221039</a>). The physiological relevance of protein/histone deacetylase activity is unclear and could be very weak (PubMed:<a href="#">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="#">23801752</a>, PubMed:<a href="#">29968769</a>). May play a role in homologous recombination (PubMed:<a href="#">21247901</a>). May promote DNA mismatch repair (PubMed:<a href="#">26221039</a>).</p>
<b>Cellular Location</b>	Cytoplasm. Nucleus Note=Excluded from nucleoli.

## Tissue Location

Widely expressed with high levels in liver and kidney.

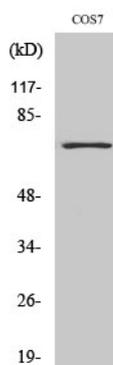
## Background

---

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](#)).

## Images

---



Western Blot analysis of various cells using Histone deacetylase 10 Polyclonal Antibody diluted at 1 : 1000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.